MDX-C7900/C7900R

SERVICE MANUAL

Ver 1.1 2001.08

US Model
Canadian Model
E Model
MDX-C7900
AEP Model
UK Model
MDX-C7900R

Photo: MDX-C7900

Refer to RM-X4S Service Manual (9-925-698-□□) issued previously for information of remote commander (RM-X4S) supplied with this set.

Model Name Using Similar Mechanism	NEW
Base Mechanism Type	MG-164KT-138
Optical Pick-Up Name	KMS-241A/J2N

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
17 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

Other specifications

MD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 W*

** This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

Tuner section

FM

Tuning range	87.5 – 107.9 MHz (C7900: US, Canadian) FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step) (C7900: E) 87.5 – 108.0 MHz (C7900R)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	10 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9 % (stereo), 0.5 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

– Continued on next page –

MDX-C7900
FM/AM MINIDISC PLAYER
MDX-C7900R
FM/MW/LW MINIDISC PLAYER

9-925-787-12
2001H0500-1
© 2001.8

Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

SONY

AM (MDX-C7900)

Tuning range	530 – 1,710 kHz (C7900: US, Canadian) AM tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step) (C7900: E)
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 µV

MW/LW (MDX-C7900R)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 281 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 50 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	40 W × 4 (at 4 ohms)

General

Outputs	Line outputs (2) Power antenna relay control lead Power amplifier control lead Telephone ATT control lead (C7900) Illumination control lead (C7900)
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 184 mm ($7^1/_8$ × 2 × $7^1/_4$) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm ($7^1/_4$ × $2^1/_8$ × $6^1/_2$) (w/h/d)
Mass	Approx. 1.2 kg (2 lb 10 oz)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary commander RM-X4S (1)

U.S. and foreign patents licensed from Dolby laboratories Licensing Corporation.

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

1. SERVICE NOTE 3

2. GENERAL

Location of Controls (MDX-C7900) 4
Location of Controls (MDX-C7900R) 5
Resetting the Unit 6
Detaching the Front Panel 6
Preparing the Rotary Commander 6
Setting the Clock 6
Installation (US, Canadian) 7
Installation (AEP, UK, E) 8
Connections 10

3. DISASSEMBLY 13

4. ELECTRICAL ADJUSTMENTS

Test Mode 18
MD Section 18
Tuner Section 18

5. DIAGRAMS

5-1. Block Diagram – SERVO Section – 21
5-2. Block Diagram – MAIN Section – 23
5-3. Block Diagram – DISPLAY/KEY CONTROL Section – 25
5-4. Block Diagram – BUS CONTROL/POWER SUPPLY Section – 27
5-5. Printed Wiring Boards – MECHANISM DECK Section – 29
5-6. Schematic Diagram – MECHANISM DECK Section – 31
5-7. Schematic Diagram – MAIN Section – 35
5-8. Printed Wiring Board – MAIN Section – 39
5-9. Printed Wiring Board – PANEL Section – 43
5-10. Schematic Diagram – PANEL Section – 45
5-11. IC Pin Function Description 55

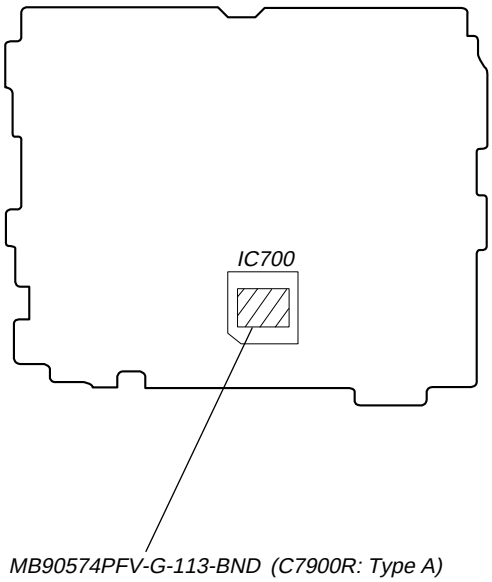
6. EXPLODED VIEWS 64

7. ELECTRICAL PARTS LIST 68

SECTION 1
SERVICE NOTE

• Type A/B Discrimination

[MAIN BOARD] (Component Side)



MB90574PFV-G-113-BND (C7900R: Type A)
MB90574PFV-G-114-BND (C7900: Type A)
MB90F574PFV-G-113 (C7900R: Type B)
MB90F574PFV-G-114 (C7900: Type B)

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

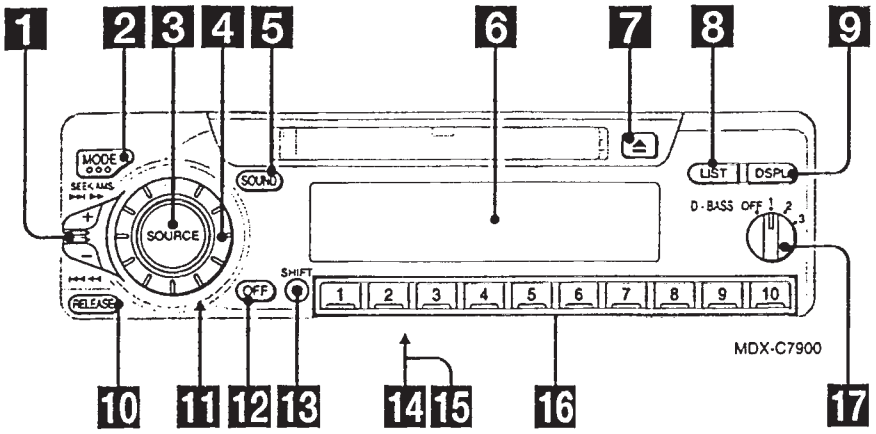
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

Location of controls (MDX-C7900)



EN

Refer to the pages for details.

1 SEEK/AMS (seek/Automatic Music Sensor/manual search) control 7, 9, 10, 14, 17

2 MODE (band/unit select) 9, 14

3 SOURCE (source select) button 6, 9, 14

4 Dial (volume/bass/treble/left-right/front-rear control) 6, 10, 11, 12, 16

5 SOUND button 12

6 Display window

7 ⏏ (eject) button 6

8 LIST button
- Disc Memo 16
- List-up 11, 16
- Station Memo 10, 11

9 DSPL (display mode change) button 7, 10, 11, 14, 16, 17

10 RELEASE (front panel release) button 5, 19

11 Reset button (located on the front side of the unit hidden by the front panel) 5

12 OFF button 5, 6

13 SHIFT button
- PLAY MODE 8, 9, 10, 15, 17
- REP 8, 15
- SET UP 6, 7, 13, 14
- SHUF 8, 15

14 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.

15 Frequency Select switch (located on the bottom of the unit) (E Model)
See "Frequency Select switch" in the Installation/Connections manual.

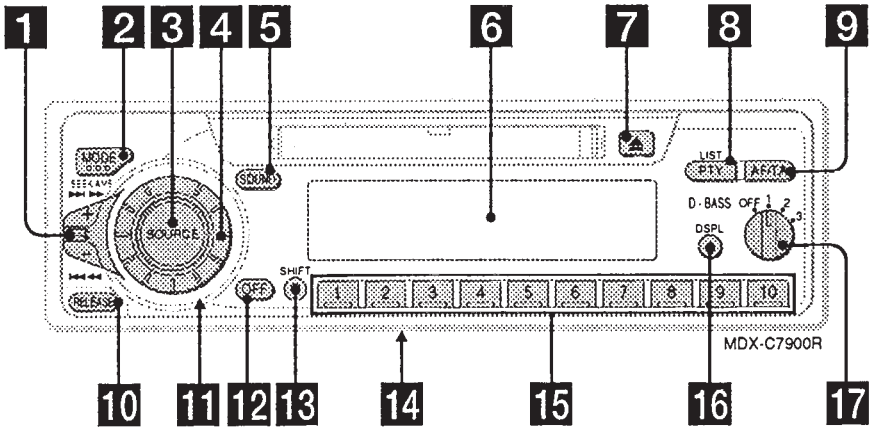
16 During radio reception:
Number buttons 9

During CD/MD playback:
Direct disc selection buttons 14

17 D-BASS dial 13

4

Location of controls (MDX-C7900R)



EN

Refer to the pages for details.

1 SEEK/AMS (seek/Automatic Music Sensor/manual search) control 7, 9, 10, 12, 14, 19, 22

2 MODE (band/unit select) button 9, 10, 18, 21

3 SOURCE (source select) button 6, 7, 9, 10, 18, 19, 21

4 Dial (volume/bass/treble/left-right/front-rear) 6, 17, 20, 21

5 SOUND button 17

6 Display window

7 ⏏ (eject) button 6

8 PTY/LIST button
Disc Memo 20, 21
List-up 21
RDS Programme 14

9 AF/TA button 11, 12, 13

10 RELEASE (front panel release) button 5, 24

11 Reset button (located on the front side of the unit behind by the front panel) 5

12 OFF button 5, 6

13 SHIFT button
PLAY MODE 8, 9, 10, 12, 13, 19, 22
REP 8, 20
SET UP 6, 7, 15, 17, 19
SHUF 8, 20

14 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.

15 During radio reception:
Number buttons 9, 10, 12, 13
During CD/MD playback:
Direct disc selection buttons 19

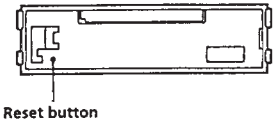
16 DSPL (display mode change) button 7, 10, 11, 18, 19, 21

17 D-BASS dial 18

4

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ballpoint pen.



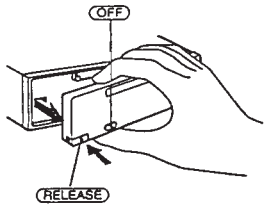
Note
Pressing the reset button will erase the clock and some memorized functions.

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

1 Press (OFF).

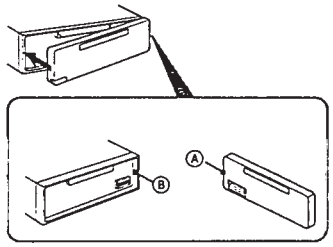
2 Press (RELEASE) to open up the front panel. Then slide the front panel a little to the left, and pull it off towards you.



Notes
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you press (RELEASE) to detach the panel while the unit is still on, the unit will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, put it in the supplied front panel case.*

Attaching the front panel

Align part Ⓐ of the front panel to part Ⓑ of the unit as illustrated, and push until it clicks.



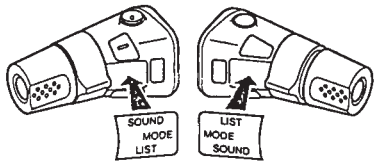
Notes
- *Be sure not to attach the front panel upside down.*
- *Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.*
- *Do not press hard or put excessive pressure on the display windows of the front panel.*
- *Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.*

Caution alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch is set to the Ⓐ position).

Preparing the rotary commander

When you mount the rotary commander, attach the label in the illustration below.

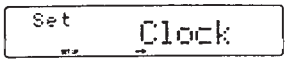


Setting the clock

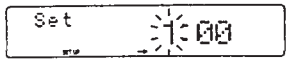
The clock has a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press (SHIFT), then press (2) (SET UP).



❶ Press (4) (→).

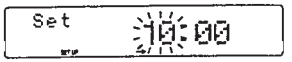


The hour digit flashes.

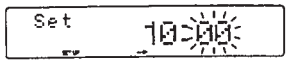
❷ Set the hour.

to go backward

to go forward



❸ Press (4) (→).

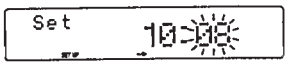


The minutes digits flash.

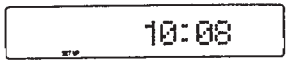
❹ Set the minutes.

to go backward

to go forward



2 Press (SHIFT).



The clock starts.

3 Press (SHIFT).
When the mode setting is complete, the normal playback mode appears.

Note
If the POWER SELECT switch on the bottom of the unit is set to the ❶ position, turn the power on first, then set the clock.

Installation (US, Canadian)

Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are for tuner adjustments to be made only by service technicians.
- Choose the installation location carefully so that the unit will not interfere with the driver while driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

How to Detach and Attach the Front Panel

Before installing the unit, detach the front panel.

To detach A

Before detaching the front panel, be sure to press (OFF) to turn off the unit. Then press (RELEASE), slide the front panel a little to the left, and pull it off toward you.

To attach B

Align the parts Ⓐ and Ⓑ, and push the front panel until it clicks.

Installation

Précautions

- Ne pas toucher les quatre orifices sur le panneau supérieur de l'appareil. Ils servent aux réglages du tuner qui ne doivent être effectués que par un technicien.
- Choisir soigneusement l'emplacement de l'installation, pour que l'appareil ne gêne pas la conduite.
- Eviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ou à de la poussière, de la saleté ou des vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 20°.

Retrait et pose du panneau avant

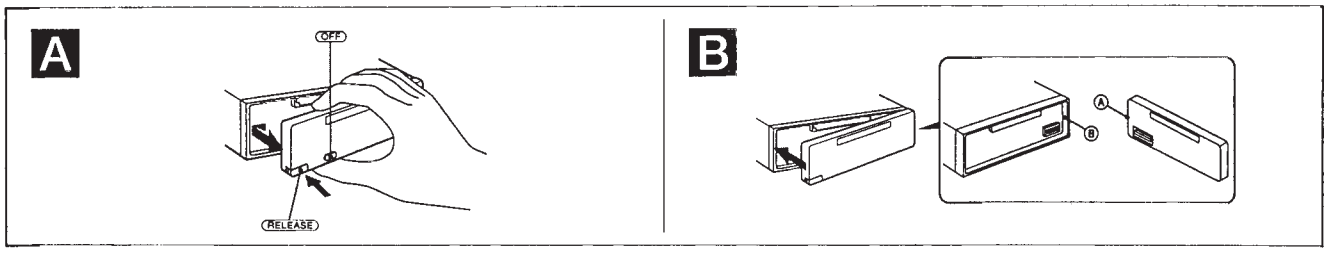
Avant d'installer l'appareil, déposer la panneau avant.

Retrait

Avant de détacher la façade, appuyez sur (OFF) pour arrêter l'appareil. Ensuite, appuyez sur la touche ensuite sur (RELEASE), poussez la façade légèrement vers la gauche et tirez vers vous pour l'enlever.

Pose

Aligner les points Ⓐ et Ⓑ, puis pousser l'appareil jusqu'au déclic.

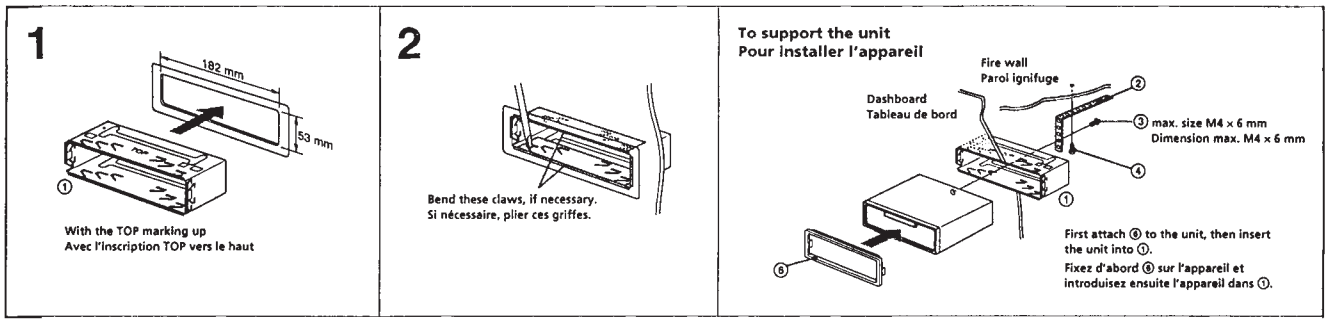


Mounting Example

Installation in the dashboard

Exemple de montage

Installation dans le tableau de bord

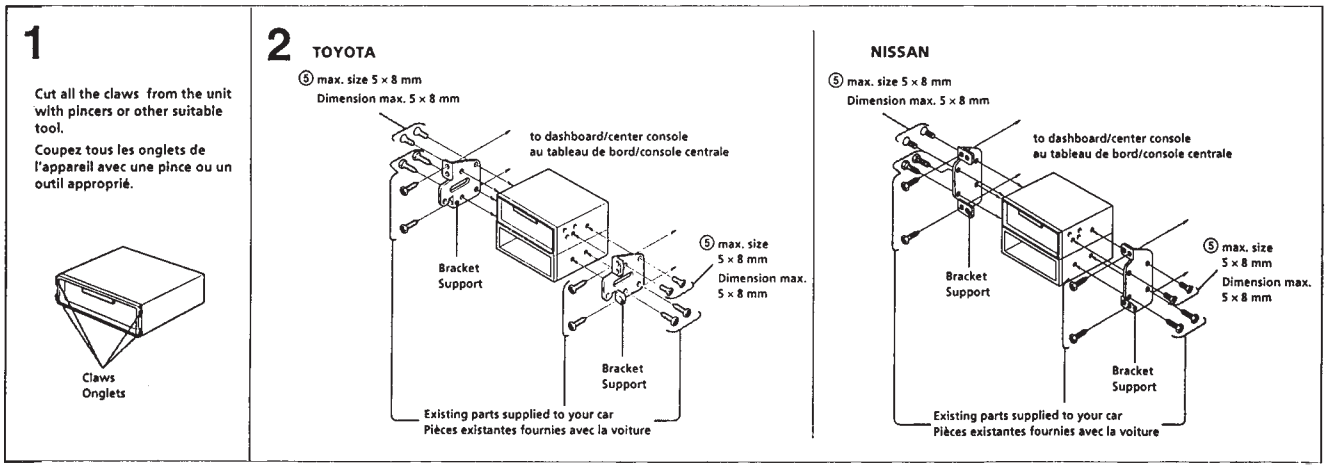


Mounting the Unit in a Japanese Car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Installation de l'appareil dans une voiture japonaise

Si vous ne pouvez pas installer l'appareil dans une voiture japonaise, consultez votre revendeur Sony.



Note
To prevent malfunction, install only with the supplied screws ⑤.

Remarque
Pour éviter tout dysfonctionnement, utilisez uniquememt les vis de montage fournies ⑤.

Installation (AEP, UK, E)

Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are used for tuner adjustments to be made only by service technicians.
- Choose the mounting location carefully so the unit does not interfere with normal driving operations.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

How to detach and attach the front panel

Before installing the unit, detach the front panel.

A To detach

Before detaching the front panel, be sure to press (OFF) to turn off the unit. Then press (RELEASE), slide the front panel a little to the left, and pull it off towards you.

B To attach

Align the parts Ⓐ and Ⓑ, and push the front panel until it clicks.

Instalación

Precauciones

- No toque los cuatro orificios de la superficie superior de la unidad. Estos orificios son para ajustes del sintonizador que solamente deberán realizar técnicos de reparación.
- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, utilice solamente la ferretería de montaje suministrada.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 20°.

Forma de extraer e instalar el panel frontal

Antes de instalar la unidad, extraiga el panel frontal.

A Para extraerlo

Antes de extraer el panel frontal, cerciórese de presionar (OFF) para desactivar la unidad. Después, presione (RELEASE), desplace ligeramente el panel frontal hacia la izquierda y tire de él hacia sí mismo.

B Para instalarlo

Alinee las partes Ⓐ y Ⓑ, y presione el panel frontal hasta que chasquee.

安裝

使用前注意事項

- 本機頂部的4個小孔請勿擅自觸動。它們僅供維修技術人員調整調諧器時之用。
- 本機請放在不妨礙司機駕駛之處。
- 避免把本機放在高溫之處，如陽光直接照射、暖氣機前、或灰塵極多、髒亂以及極易受震動等地方。
- 為了安全起見，安裝時請使用附送的安裝用部件。

安裝角度之調整

請在20度以內調整安裝角度。

前板之裝卸

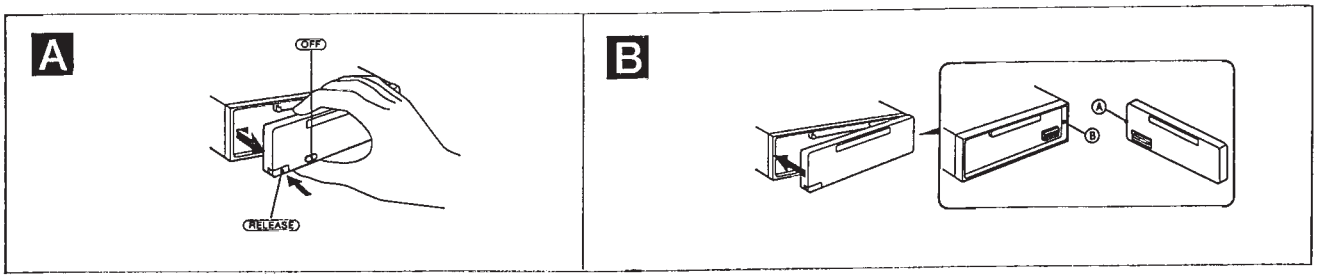
安裝本機之前，請先拆下前板。

A 要拆卸時

折卸前板之前，務必按下 (OFF) 鍵，以關閉本機。然後，按下 (RELEASE) 鍵，將前板稍微向左邊滑動，並向朝著您的方向卸下前板。

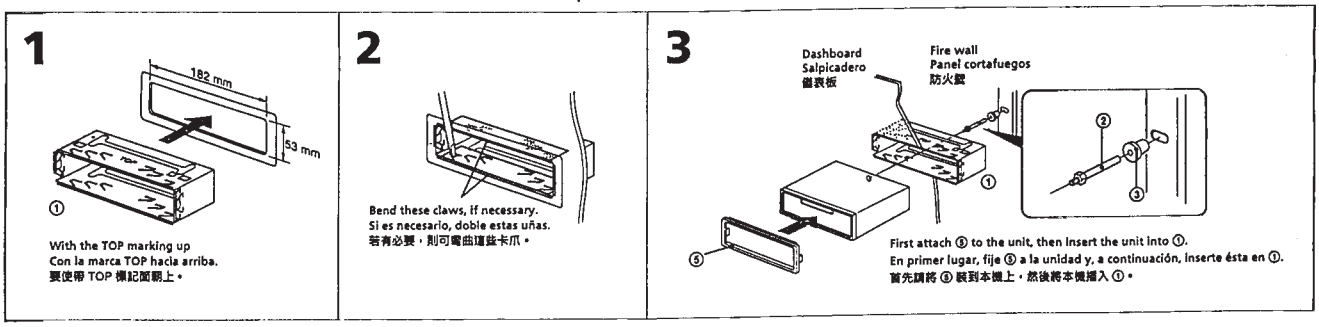
B 要安裝時

將 Ⓐ 處和 Ⓑ 處對準，然後推入前板直至聽到“卡搭”一聲。



Mounting example

Installation in the dashboard



Ejemplo de montaje

Instalación en el salpicadero

安裝示例

安裝於儀表板上

Mounting the unit in a japanese car

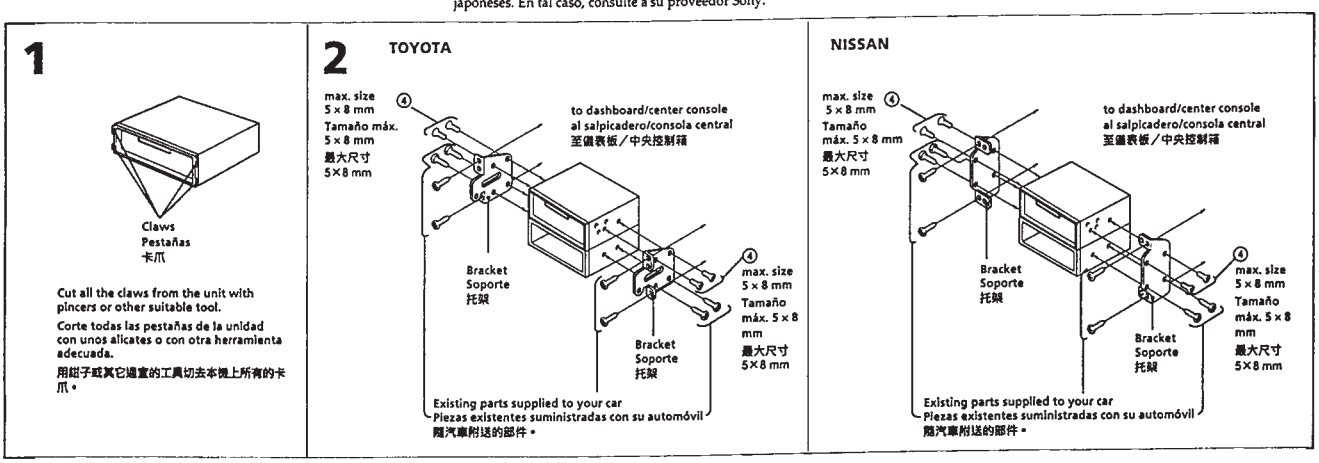
You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Montaje de la unidad en un automóvil japonés

Usted no podrá instalar esta unidad en algunos automóviles japoneses. En tal caso, consulte a su proveedor Sony.

將本機安裝於日本汽車裡

有的日本產汽車不能安裝本機。在這種情形下，請您向當地的 Sony 經銷商諮詢。



Note
To prevent malfunction, install only with the supplied screws ④.

Nota
Para evitar que se produzcan fallos, realice la instalación solamente con los tornillos suministrados ④.

註
為防止發生故障，安裝時只能使用附送的螺絲 ④。

Installing the rotary commander

Notes

- *Choose the mounting location carefully so that the rotary commander will not interfere with operating the car.*
- *Do not install the rotary commander in a place where it may jeopardize the safety of the (front) passenger in anyway.*
- *When installing the rotary commander, be sure not to damage the electrical cables etc. on the other side of the mounting surface.*
- *Avoid installing the rotary commander where it may be subject to high temperatures, such as from direct sunlight or hot air from the heater etc.*

安裝轉動式控制器

註

- *轉動式控制器請裝在不妨礙汽車駕駛之處。*
- *不可把轉動式控制器裝在對乘客有危險的地方。*
- *安裝控制器時，請注意不要讓螺絲釘值及安裝面反面的電線等。*
- *避免將控制器安裝在高溫，如陽光直接照射或暖氣機前等地方。*

Instalación del mando rotativo

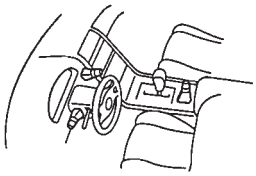
Notas

- *Elija cuidadosamente el lugar de montaje de forma que el mando rotativo no dificulte la conducción del coche.*
- *No instale el mando rotativo en un lugar donde pueda poner en peligro la seguridad del pasajero acompañante.*
- *Al instalar el mando rotativo, asegúrese de no dañar los cables de electricidad, etc., del otro lado de la superficie de montaje.*
- *Procure no instalar el mando rotativo en un lugar expuesto a altas temperaturas, como a la luz solar directa o al aire caliente de la calefacción, etc.*

Example of a mounting location

Ejemplo de un lugar de montaje

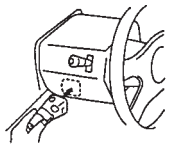
安裝位置舉例



1 Choose the exact location for mounting the rotary commander, then clean the mounting surface.
Dirt or oil impair the adhesive strength of the double-sided adhesive tape.

Una vez elegido el lugar de montaje del mando rotativo, limpie previamente la superficie de montaje.
La suciedad o la grasa dañan la intensidad adhesiva de la cinta adhesiva de dos caras.

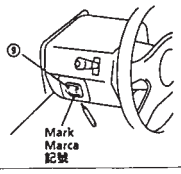
選擇一個適合安裝轉動式控制器的地方，然後擦淨安裝面。
表面骯髒或有油污會減低兩面膠帶的貼牢力。



2 Mark position for the supplied screw.
Use the screw hole on the mounting hardware ⑨ to mark the position.

Marque la posición para los tornillos suministrados.
Para ello, utilice los orificios para tornillos de la ferretería de montaje ⑨.

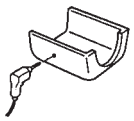
畫一個供螺絲釘鑽孔之處。
按照安裝道具 ⑨ 的螺絲釘孔位置作記號。



3 Remove the steering wheel column cover, and drill 2 mm diameter hole at the marked position.

Extraiga la cubierta de la columna de la dirección y haga orificio de 2 mm. de diámetro en el lugar marcado.

取下轉向柱外殼，並在所作記號之處鑽開 2mm 大小的釘孔。



4 Warm the mounting surface and the double-sided adhesive tape on the mounting hardware ⑨ to the temperature of 20°C to 30°C, and attach the mounting hardware to the mounting surface applying even pressure. Then screw it down with the supplied screw ⑧.
Attach a piece of heavy duty tape etc. on the other side of the mounting surface to cover the protruding tips of the screw so they will not interfere with any electrical cables etc. inside the steering wheel column.

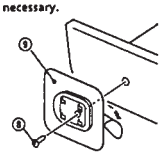
Caliente la superficie de montaje y la cinta adhesiva de doble cara de la ferretería de montaje ⑨ a una temperatura entre 20°C y 30°C, y ajuste la ferretería de montaje a la superficie de montaje ejerciendo una presión uniforme. A continuación, apriete los tornillos ⑧ suministrados.
Adhiera un trozo de cinta adhesiva resistente, etc. en el otro lado de la superficie de montaje para cubrir los extremos de los tornillos que sobresalgan, de forma que no interfieran con los cables de electricidad, etc., del interior de la columna de dirección.

將安裝面及安裝用部件 ⑨ 的兩面膠帶加熱至 20°C 到 30°C 程度，然後將安裝用部件貼在轉向柱外殼，貼時所施加壓力須均等。以附送的螺絲釘 ⑧ 把安裝用部件釘緊。
在安裝面的反面之螺絲釘尖端部分，貼一張強力膠帶，以免傷害轉向柱裡面的電線等。

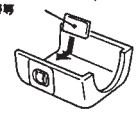
Cut the mounting hardware ⑨, if necessary.

Si es necesario, corte la pieza ⑨.

必要時，除去安裝用部件 ⑨。



Heavy duty tape etc.
Cinta adhesiva resistente, etc.
強力膠帶等



5 After installing the steering wheel column cover, attach the rotary commander to the mounting hardware by aligning the four holes on the bottom of the rotary commander with the four catches on the mounting hardware and sliding the rotary commander until it locks into place as illustrated.

Note

If you are mounting the rotary commander on the steering wheel column, make sure that the protruding tips of the screw on the inner surface of the column do not in any way hinder or interfere with the movement of the rotating shaft, operative parts of the switches or the electrical cables etc. inside the column.

Una vez instalada la cubierta de la columna de dirección, fije el mando rotativo a la ferretería de montaje alineando los cuatro orificios de la parte inferior del mando con los cuatro enganches de la ferretería de montaje. A continuación, deslice el mando hasta que encaje en su sitio como se muestra en la ilustración.

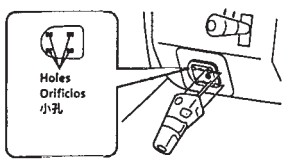
Nota

Si monta el mando rotativo en la columna de dirección, asegúrese de que los extremos de los tornillos que sobresalgan de la superficie interior de la columna no dificulten el movimiento del eje de rotación ni los componentes operativos de los conmutadores o los cables de electricidad, etc., del interior de la columna.

在轉向柱外殼重新裝上以後，將控制器裝在安裝用部件裡。調將控制器底部的4個小孔對準安裝用部件的4個小鉤，然後按照插圖所示，將控制器插入部件裡。

註

在將控制器裝在轉向柱外殼時，必須注意。轉向柱裡的螺絲釘之尖端，不可碰到或傷害到轉向柱裡的轉軸、開關的操作部分或電線等。



Connections

Caution

- This unit is designed for negative earth 12 V DC operation only.
- Before making connections, disconnect the earth terminal of the car battery to avoid short circuits.
- Connect the yellow and red power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- Run all earth wires to a common earth point.
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual components' fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

If your car has no accessory position on the ignition key switch — POWER SELECT switch

The illumination on the front panel is factory set to be turned on even while the unit is not in use. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the Ⓑ position, then press the reset button. The illumination is reset to stay off while the unit is not in use.

Note
The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the Ⓑ position.

Frequency select Switch (E Model)

The AM (FM) tuning interval is factory-set to the 9K (50K) position. If the frequency allocation system of your country is based on 10 kHz (200 kHz) interval, set the switch on the bottom of the unit to the 10K (200K) position before making connections.

When you change the position of the switch, be sure to press the reset buttons after the connections are completed.

Reset button

When the installation and connections are complate, be sure to press the reset button with a ball-point pen etc.

Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Antes de realizar las conexiones, desconecte el terminal de puesta a masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte los cables conectores de alimentación amarillo y rojo solamente después de haber conectado los demás.
- Cerciórese de conectar el cable conector de alimentación rojo a un terminal de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- Conecte todos los conductores de puesta a masa a un punto común.
- Conecte el cable amarillo a un circuito libre de automóvil de potencia nominal superior a la del fusible de la unidad. Si conecta esta unidad en serie con otros componentes estéreo, la potencia nominal del circuito del automóvil a los que dichos componentes estén conectados debe ser superior a la suma de la potencia nominal del fusible de los componentes. Si no existen circuitos de automóvil de potencia nominal igual a la del fusible de la unidad, conecte ésta directamente a la batería. Si no hay circuitos de automóvil disponibles para conectar esta unidad, conecte la misma a un circuito de automóvil de potencia nominal superior a la del fusible de la unidad de forma que no se desactiven otros circuitos si el fusible de dicha unidad se funde.

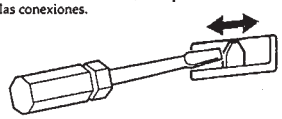
Si el automóvil no dispone de posición para accesorios en la llave de encendido — Selector POWER SELECT

La iluminación del panel frontal ha sido ajustada en fábrica para que esté activada aunque la unidad no se encuentre en funcionamiento. Sin embargo, este ajuste puede provocar cierta descarga de la batería del automóvil si éste no dispone de posición para accesorios en la llave de encendido. Para evitar esto, ponga el selector POWER SELECT, situado en la base de la unidad, en la posición Ⓑ y, después, presione el botón de reposición. La iluminación estará desactivada cuando la unidad no se encuentre en funcionamiento.

Nota
La alarma de precaución del panel frontal no se activará cuando el selector POWER SELECT se encuentre en la posición Ⓑ.

Selector de frecuencia

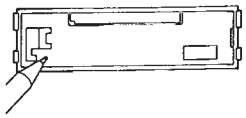
El intervalo de sintonía de AM (FM) ha sido ajustado en fábrica a la posición 9K (50K). Si el sistema de asignación de frecuencias de su país se basa en el intervalo de 10 kHz (200 kHz), ponga este selector, situado en la base de la unidad, en la posición 10 K (200K) antes de realizar las conexiones.



Cuando haya cambiado la posición del selector, cerciórese de presionar los botones de reposición después de haber finalizado las conexiones.

Botón de reposición

Cuando haya finalizado la instalación y las conexiones, cerciórese de presionar el botón de reposición con un bolígrafo, etc.



線路連接

注意

- 本機只能使用負極接地 12 V 直流電源。
- 連接前，先拔去汽車電池的接地端子，以免發生短路。
- 黃色和紅色電源輸入導線必須在所有其它導線都連接完畢以後才連接。
- 紅色電源導線務請連接至 +12 V 電源端子（該電源端子在汽車發動機點火鑰匙感於輔助位置時才通電）。
- 將所有地線都連接到同一地點。
- 將黃色導線連接到大於機器保險絲額定容量的未佔用的汽車電路上。若將本機和其它立體聲裝置相互串聯，所連接的汽車電路容量必須大於各組成機保險絲容量的總和。
  若沒有與本機保險絲額定容量一樣大的汽車電路可資利用，可將本機直接連接到電池上。
  若無適當的汽車電路可用於連接本機，請將本機連接到大於本機保險絲容量的汽車電路上。這樣，若本機的保險絲燒斷了，也不致於切斷其它電路。

若要在汽車發動機點火鑰匙開關沒具輔助位置的汽車裡使用時 — POWER SELECT 開關

前板的照明燈是出廠前設置的，即使不使用本機也會發亮。若要在汽車發動機點火鑰匙沒具輔助位置的汽車裡使用本機，此照明燈將會一直消耗微量的汽車電池電力。因此為了避免在這種狀態下的電池消耗，請將本機底部的 POWER SELECT 開關設定在 Ⓑ 檔處，然後按下前板的復位鍵。這樣，不使用本機時，照明燈便不發亮。

註
POWER SELECT 開關設定在 Ⓑ 檔時，前板的操作指撥器功能便失效。

頻率選擇開關

AM(FM) 調諧間隔在出廠前被設定在 9 K(50K) 位置上。若貴國的頻率分配系統是以 10 kHz(200kHz) 為基礎的，連接前，請將本機機底部上的開關設定在 10 K(200K) 位置上。

改變開關位置時，請一定在連接好機器後按下復位鍵。

復位鍵

當安裝和連接完成後，務請用圓珠筆等按壓復位鍵。

Connection diagram — Diagramas de conexión — 線路連接圖

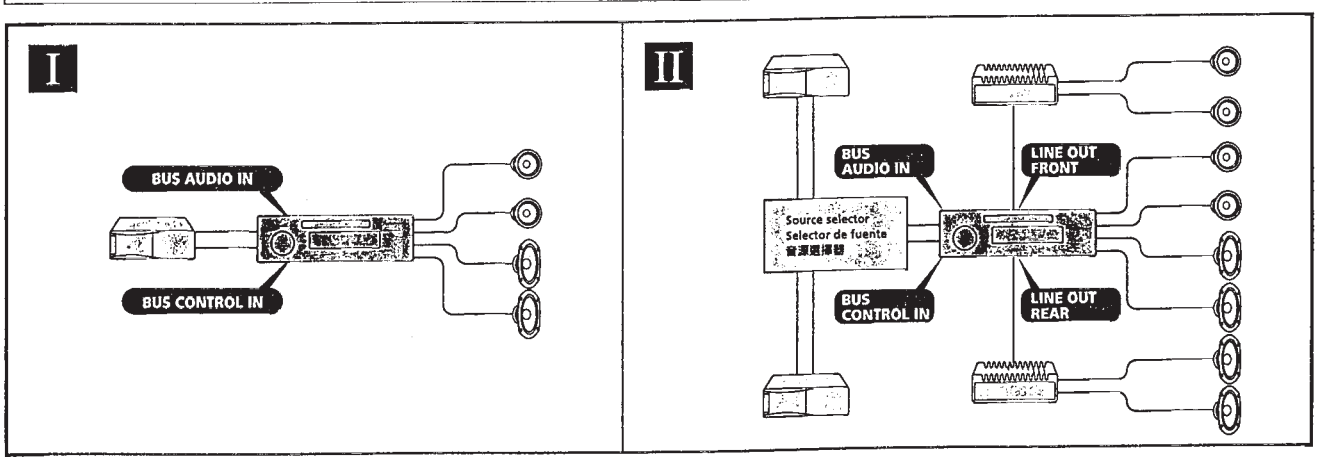
Equipment used in illustrations (not supplied)
Equipo utilizado en las ilustraciones (no suministrado)
插圖中使用的裝置（非附送）

- Front speakers — Altavoces delanteros — 前揚聲器
- Rear speakers — Altavoces traseros — 後揚聲器
- Power amplifier — Amplificador de potencia — 功率放大器
- CD/MD changer — Cambiador de CD/MD — CD/MD 換碟機

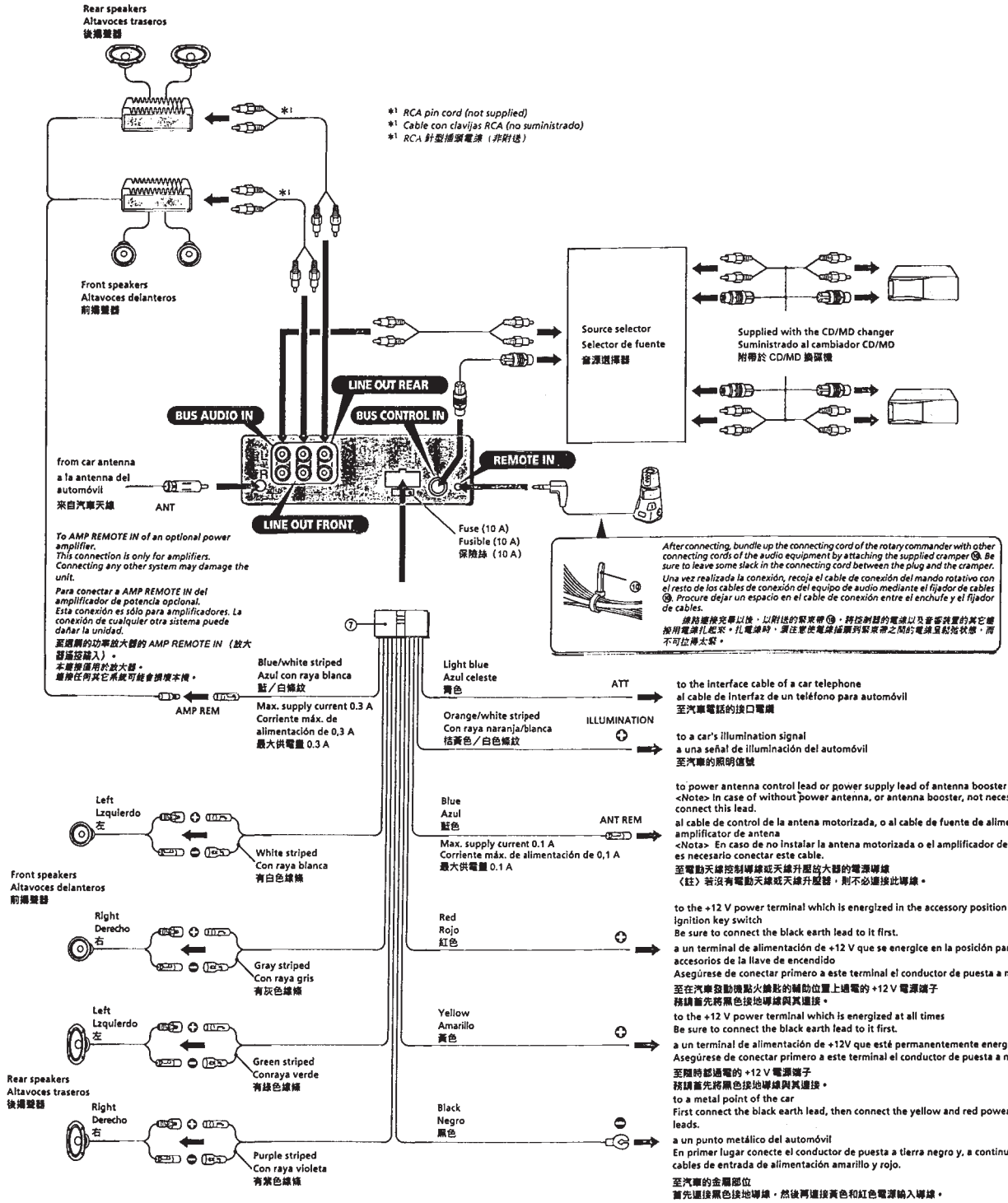
Note
For connecting two or more changers, the source selector XA-C30 (optional).

Nota
Cuando desee conectar dos o más cambiadores, necesitará un selector de fuente XA-C30 (opcionales).

註
連接2套或2套以上換碟機時，必須要利用音源選擇器 XA-C30（選購品）。



Connection example (MDX-C7900)
Ejemplo de conexiones
線路連接圖例


Rear speakers
Altavoces traseros
後揚聲器
*1 RCA pin cord (not supplied)
*1 Cable con clavijas RCA (no suministrado)
*1 RCA 針型插頭電線（非附送）
Front speakers
Altavoces delanteros
前揚聲器
Source selector
Selector de fuente
音源選擇器
Supplied with the CD/MD changer
Suministrado al cambiador CD/MD
附帶於 CD/MD 換碟機
LINE OUT REAR
BUS AUDIO IN
BUS CONTROL IN
REMOTE IN
from car antenna
a la antena del automóvil
來自汽車天線
ANT
LINE OUT FRONT
Fuse (10 A)
Fusible (10 A)
保險絲（10 A）
To AMP REMOTE IN of an optional power amplifier.
This connection is only for amplifiers.
Connecting any other system may damage the unit.
Para conectar a AMP REMOTE IN del amplificador de potencia opcional.
Esta conexión es sólo para amplificadores. La conexión de cualquier otra sistema puede dañar la unidad.
至選購的功率放大器的 AMP REMOTE IN（放大器遙控器入）。
本裝換僅用於放大器。
連接任何其它系統可能會損壞本機。
After connecting, bundle up the connecting cord of the rotary commander with other connecting cords of the audio equipment by attaching the supplied cramper ⑲. Be sure to leave some slack in the connecting cord between the plug and the cramper.
Una vez realizada la conexión, recoja el cable de conexión del mando rotativo con el resto de los cables de conexión del equipo de audio mediante el fijador de cables ⑲. Procure dejar un espacio en el cable de conexión entre el enchufe y el fijador de cables.
線路連接完畢以後，以附送的緊束帶⑲，將控制器的電線以及音響裝置的其它連接用電線扎起來。扎電線時，須注意使電線插頭到緊束帶之間的電線呈鬆弛狀態，而不可拉得太緊。
AMP REM
Blue/white striped
Azul con raya blanca
藍／白條紋
Max. supply current 0.3 A
Corriente máx. de alimentación de 0,3 A
最大供電量 0.3 A
Light blue
Azul celeste
青色
ATT
to the interface cable of a car telephone
al cable de interfaz de un teléfono para automóvil
至汽車電話的接口電纜
Orange/white striped
Con raya naranja/blanca
桔黃色／白色條紋
ILLUMINATION
to a car's illumination signal
a una señal de iluminación del automóvil
至汽車的照明信號
Left
Izquierdo
左
White striped
Con raya blanca
有白色線條
Front speakers
Altavoces delanteros
前揚聲器
Blue
Azul
藍色
ANT REM
Max. supply current 0.1 A
Corriente máx. de alimentación de 0,1 A
最大供電量 0.1 A
to power antenna control lead or power supply lead of antenna booster amplifier
<Note> In case of without power antenna, or antenna booster, not necessary to connect this lead.
al cable de control de la antena motorizada, o al cable de fuente de alimentación del amplificator de antena
<Nota> En caso de no instalar la antena motorizada o el amplificador de antena, no es necesario conectar este cable.
至電動天線控制導線或天線升壓放大器的電源導線
《註》若沒有電動天線或天線升壓器，則不必連接此導線。
Right
Derecho
右
Gray striped
Con raya gris
有灰色線條
Red
Rojo
紅色
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black earth lead to it first.
a un terminal de alimentación de +12 V que se energice en la posición para accesorios de la llave de encendido
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro
至在汽車發動機點火鑰匙的輔助位置上通電的 +12 V 電源端子
務請首先將黑色接地導線與其連接。
Left
Izquierdo
左
Green striped
Conraya verde
有綠色線條
Yellow
Amarillo
黃色
to the +12 V power terminal which is energized at all times
Be sure to connect the black earth lead to it first.
a un terminal de alimentación de +12V que esté permanentemente energizado
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro
至隨時都通電的 +12 V 電源端子
務請首先將黑色接地導線與其連接。
Rear speakers
Altavoces traseros
後揚聲器
Right
Derecho
右
Purple striped
Con raya violeta
有紫色線條
Black
Negro
黑色
to a metal point of the car
First connect the black earth lead, then connect the yellow and red power input leads.
a un punto metálico del automóvil
En primer lugar conecte el conductor de puesta a tierra negro y, a continuación, los cables de entrada de alimentación amarillo y rojo.
至汽車的金屬部位
首先連接黑色接地導線，然後再連接黃色和紅色電源輸入導線。

Note on the control leads
The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Nota sobre los conductores de control
El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador.

Conexión para protección de la memoria
Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición OFF.

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificador incorporado) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*

關於控制導線
接通調諧器電源時，電動天線的控制導線（藍色）便能提供 +12 V 直流電。

保持記憶的線路連接法
當連接好黃色電源輸入導線時，即使汽車發動機點火鑰匙已將在電源切斷之時，電源仍繼續將電流供給記憶用電路，以保持所記憶著的數據。

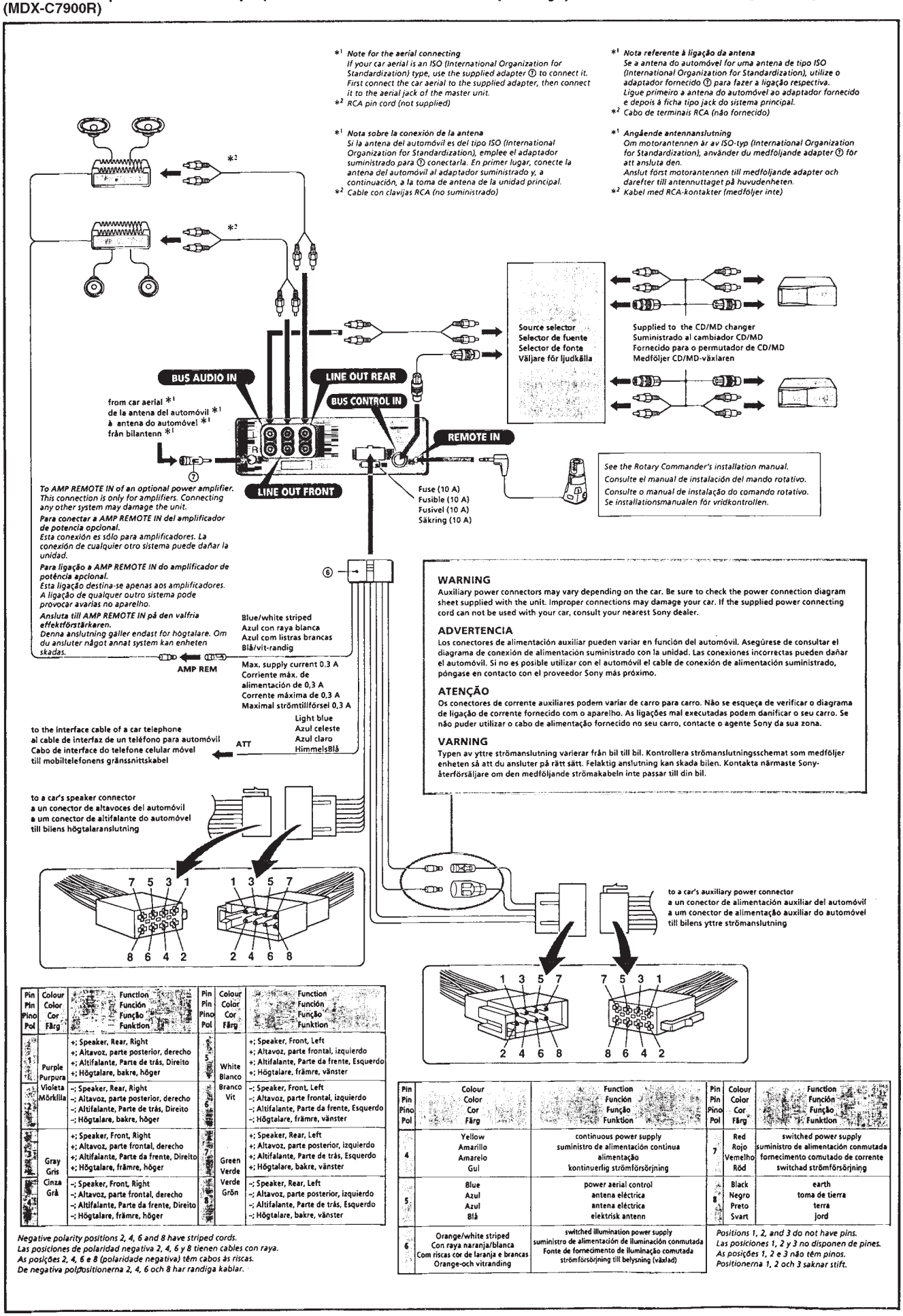
連接揚聲器時的注意事項
- *連接揚聲器電線以前，請先切斷本機電源。*
- *請使用4至8Ω 阻抗並且具有足夠功率的揚聲器。否則會損壞揚聲器。*
- *不可將揚聲器的端子直接至汽車底盤，也不可將左揚聲器和右揚聲器相連接。*
- *揚聲器不可平行連接。*
- *不可連接有源揚聲器（內裝有放大器者）至本機的揚聲器端子，否則會損壞有源揚聲器。因此，這些端子只能連接無源揚聲器。*

Connection example (MDX-C7900R)

Ejemplo de conexiones

Exemplo de ligações

Anslutningarna enligt exemplet


*1 Note for the aerial connecting
If your car aerial is an ISO (International Organization for Standardization) type, use the supplied adapter ⑦ to connect it. First connect the car aerial to the supplied adapter, then connect it to the aerial jack of the master unit.
*2 RCA pin cord (not supplied)
*1 Nota sobre la conexión de la antena
Si la antena del automóvil es del tipo ISO (International Organization for Standardization), emplee el adaptador suministrado para ⑦ conectarla. En primer lugar, conecte la antena del automóvil al adaptador suministrado y, a continuación, a la toma de antena de la unidad principal.
*2 Cable con clavijas RCA (no suministrado)
*1 Nota referente à ligação da antena
Se a antena do automóvel for uma antena de tipo ISO (International Organization for Standardization), utilize o adaptador fornecido ⑦ para fazer a ligação respectiva. Ligue primeiro a antena do automóvel ao adaptador fornecido e depois à ficha tipo jack do sistema principal.
*2 Cabo de terminais RCA (não fornecido)
*1 Angående antennanslutning
Om motorantennen är av ISO-typ (International Organization for Standardization), använder du medföljande adapter ⑦ för att ansluta den.
Anslut först motorantennen till medföljande adapter och därefter till antennuttaget på huvudenheten.
*2 Kabel med RCA-kontakter (medföljer inte)
Source selector
Selector de fuente
Selector de fonte
Väljare för ljudkälla
Supplied to the CD/MD changer
Suministrado al cambiador CD/MD
Fornecido para o permutador de CD/MD
Medföljer CD/MD-växlaren
BUS AUDIO IN
LINE OUT REAR
BUS CONTROL IN
REMOTE IN
LINE OUT FRONT
from car aerial *1
de la antena del automóvil *1
à antena do automóvel *1
från bilantenn *1
To AMP REMOTE IN of an optional power amplifier.
This connection is only for amplifiers. Connecting any other system may damage the unit.
Para conectar a AMP REMOTE IN del amplificador de potencia opcional.
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
Para ligação a AMP REMOTE IN do amplificador de potência apcional.
Esta ligação destina-se apenas aos amplificadores. A ligação de qualquer outro sistema pode provocar avarias no aparelho.
Ansluta till AMP REMOTE IN på den valfria effektförstärkaren.
Denna anslutning gäller endast för högtalare. Om du ansluter något annat system kan enheten skadas.
Fuse (10 A)
Fusible (10 A)
Fusível (10 A)
Säkring (10 A)
See the Rotary Commander's installation manual.
Consulte el manual de instalación del mando rotativo.
Consulte o manual de instalação do comando rotativo.
Se installationsmanualen för vridkontrollen.
Blue/white striped
Azul con raya blanca
Azul com listras brancas
Blå/vit-randig
AMP REM
Max. supply current 0.3 A
Corriente máx. de alimentación de 0,3 A
Corrente máxima de 0,3 A
Maximal strömtillförsel 0,3 A
Light blue
Azul celeste
Azul claro
HimmelsBlå
ATT
to the interface cable of a car telephone
al cable de interfaz de un teléfono para automóvil
Cabo de interface do telefone celular móvel
till mobiltelefonens gränssnittskabel
to a car's speaker connector
a un conector de altavoces del automóvil
a um conector de altifalante do automóvel
till bilens högtalaranslutning
to a car's auxiliary power connector
a un conector de alimentación auxiliar del automóvil
a um conector de alimentação auxiliar do automóvel
till bilens yttre strömanslutning
7 5 3 1
8 6 4 2
1 3 5 7
2 4 6 8

WARNING
Auxiliary power connectors may vary depending on the car. Be sure to check the power connection diagram sheet supplied with the unit. Improper connections may damage your car. If the supplied power connecting cord can not be used with your car, consult your nearest Sony dealer.

ADVERTENCIA
Los conectores de alimentación auxiliar pueden variar en función del automóvil. Asegúrese de consultar el diagrama de conexión de alimentación suministrado con la unidad. Las conexiones incorrectas pueden dañar el automóvil. Si no es posible utilizar con el automóvil el cable de conexión de alimentación suministrado, póngase en contacto con el proveedor Sony más próximo.

ATENÇÃO
Os conectores de corrente auxiliares podem variar de carro para carro. Não se esqueça de verificar o diagrama de ligação de corrente fornecido com o aparelho. As ligações mal executadas podem danificar o seu carro. Se não puder utilizar o cabo de alimentação fornecido no seu carro, contacte o agente Sony da sua zona.

VARNING
Typen av yttre strömanslutning varierar från bil till bil. Kontrollera strömanslutningsschemat som medföljer enheten så att du ansluter på rätt sätt. Felaktig anslutning kan skada bilen. Kontakta närmaste Sony-återförsäljare om den medföljande strömkabeln inte passar till din bil.

Pin Pin Pino Pol	Colour Color Cor Färg	Function Función Função Funktion	Pin Pin Pino Pol	Colour Color Cor Färg	Function Función Função Funktion
1	Purple Purpura	+; Speaker, Rear, Right +; Altavoz, parte posterior, derecho +; Altifalante, Parte de trás, Direito +; Högtalare, bakre, höger	2	White Blanco Branco Vit	+; Speaker, Front, Left +; Altavoz, parte frontal, izquierdo +; Altifalante, Parte da frente, Esquerdo +; Högtalare, främre, vänster
1	Violeta Mörklila	–; Speaker, Rear, Right –; Altavoz, parte posterior, derecho –; Altifalante, Parte de trás, Direito –; Högtalare, bakre, höger	2		–; Speaker, Front, Left –; Altavoz, parte frontal, izquierdo –; Altifalante, Parte da frente, Esquerdo –; Högtalare, främre, vänster
3	Gray Gris Cinza Grå	+; Speaker, Front, Right +; Altavoz, parte frontal, derecho +; Altifalante, Parte da frente, Direito +; Högtalare, främre, höger	3	Green Verde Verde Grön	+; Speaker, Rear, Left +; Altavoz, parte posterior, izquierdo +; Altifalante, Parte de trás, Esquerdo +; Högtalare, bakre, vänster
3		–; Speaker, Front, Right –; Altavoz, parte frontal, derecho –; Altifalante, Parte da frente, Direito –; Högtalare, främre, höger	3		–; Speaker, Rear, Left –; Altavoz, parte posterior, izquierdo –; Altifalante, Parte de trás, Esquerdo –; Högtalare, bakre, vänster

Negative polarity positions 2, 4, 6 and 8 have striped cords.
Las posiciones de polaridad negativa 2, 4, 6 y 8 tienen cables con raya.
As posições 2, 4, 6 e 8 (polaridade negativa) têm cabos às riscas.
De negativa polpositionerna 2, 4, 6 och 8 har randiga kablar.

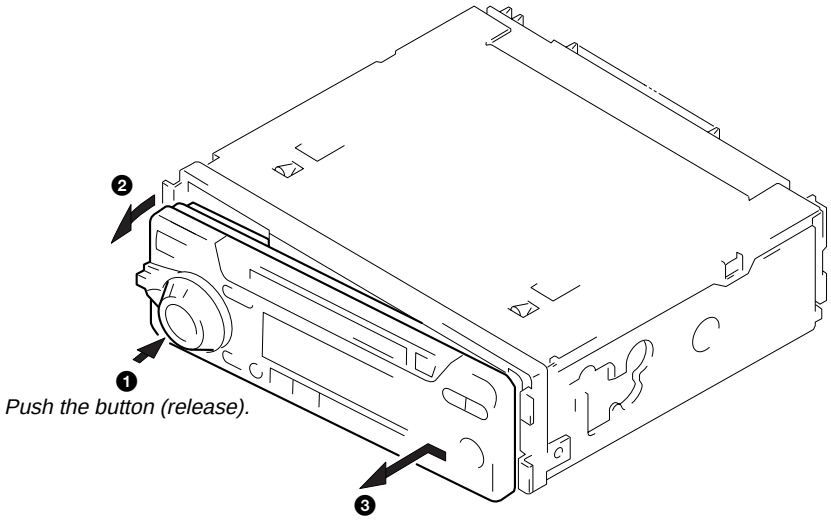
Pin Pin Pino Pol	Colour Color Cor Färg	Function Función Função Funktion	Pin Pin Pino Pol	Colour Color Cor Färg	Function Función Função Funktion
4	Yellow Amarillo Amarelo Gul	continuous power supply suministro de alimentación continua alimentação kontinuerlig strömförsörjning	7	Red Rojo Vermelho Röd	switched power supply suministro de alimentación conmutada fornecimento comutado de corrente switchad strömförsörjning
5	Blue Azul Azul Blå	power aerial control antena eléctrica antena eléctrica elektrisk antenn	8	Black Negro Preto Svart	earth toma de tierra terra jord
6	Orange/white striped Con raya naranja/blanca Com riscas cor de laranja e brancas Orange-och vitranding	switched illumination power supply suministro de alimentación de iluminación conmutada Fonte de fornecimento de iluminação comutada strömförsörjning till belysning (växlad)			

Positions 1, 2, and 3 do not have pins.
Las posiciones 1, 2 y 3 no disponen de pines.
As posições 1, 2 e 3 não têm pinos.
Positionerna 1, 2 och 3 saknar stift.

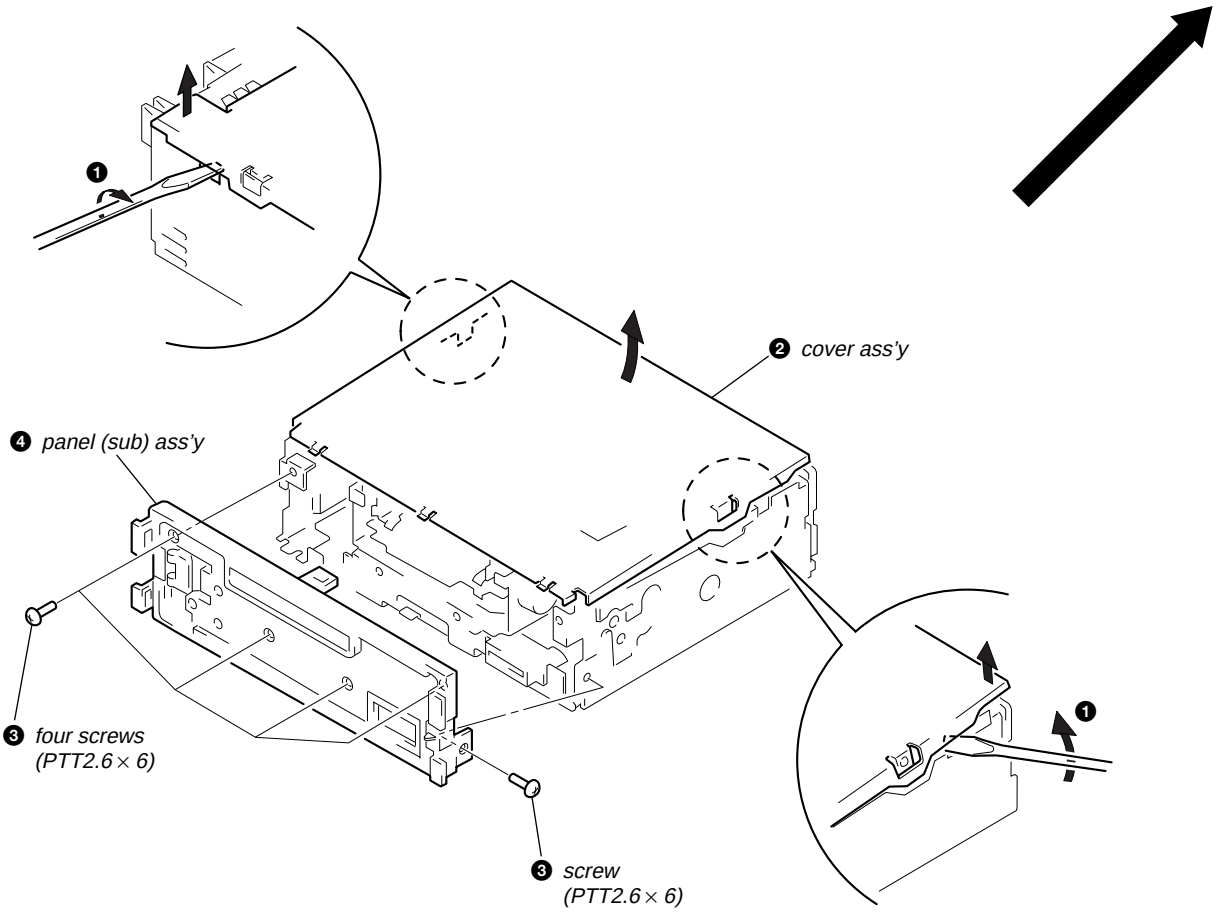
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

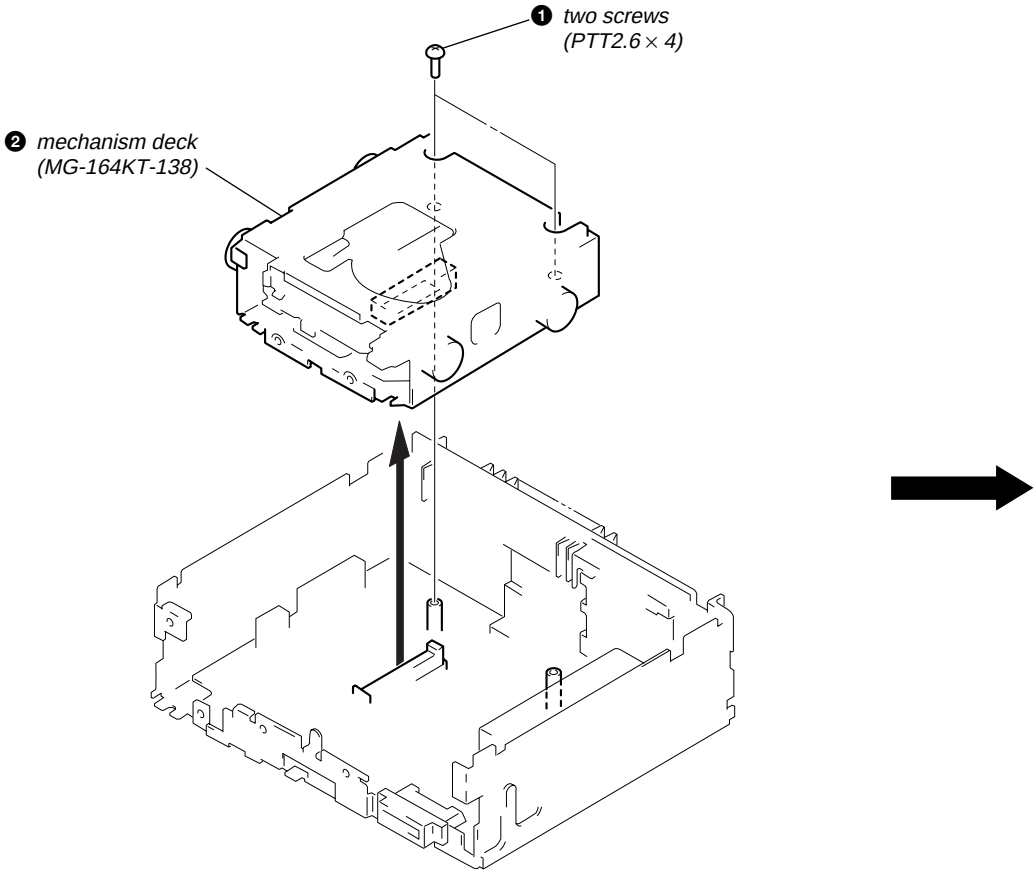
FRONT PANEL



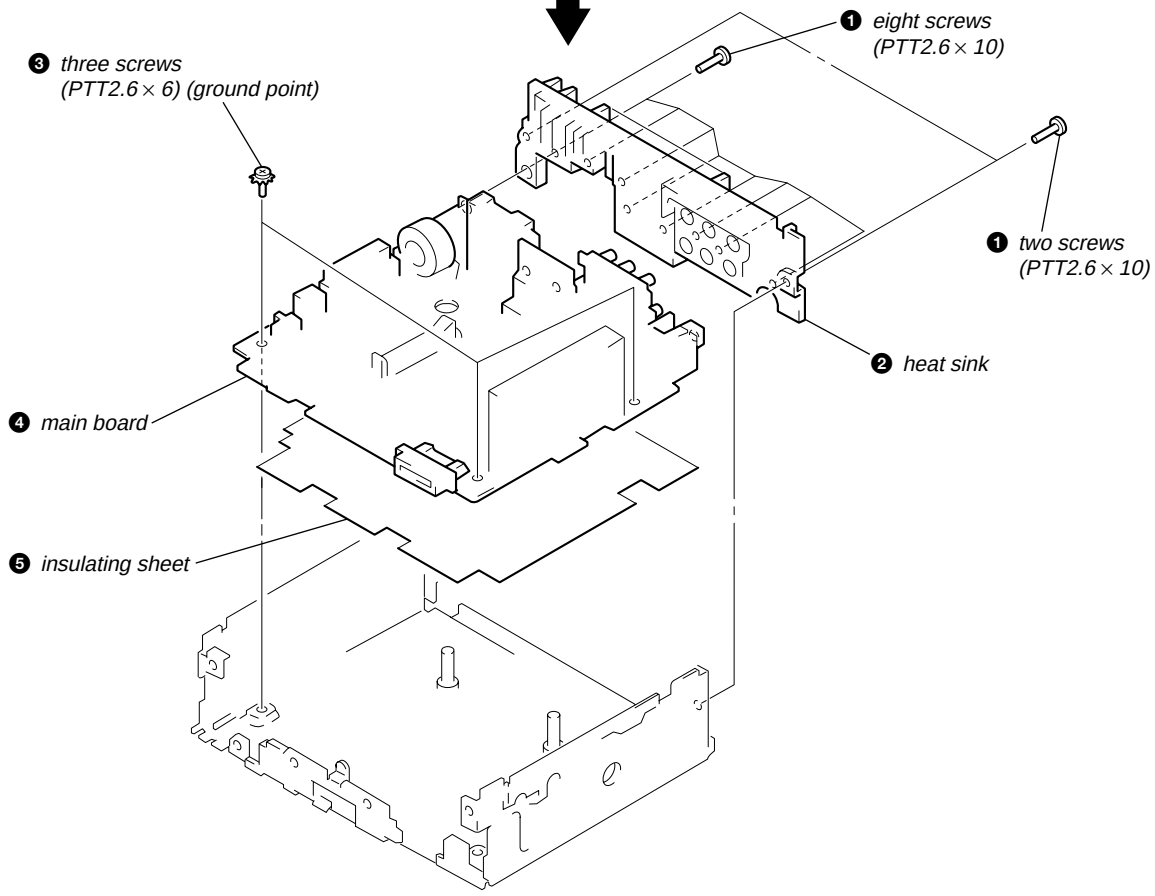
COVER ASS'Y, PANEL (SUB) ASS'Y



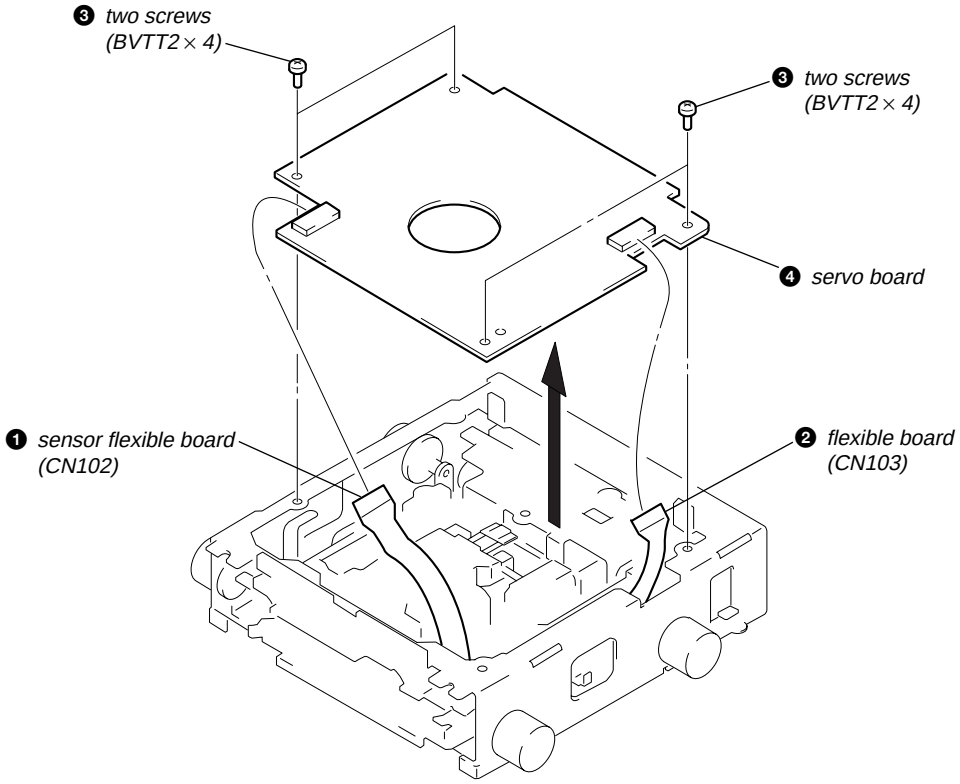
MECHANISM DECK (MG-164KT-138)



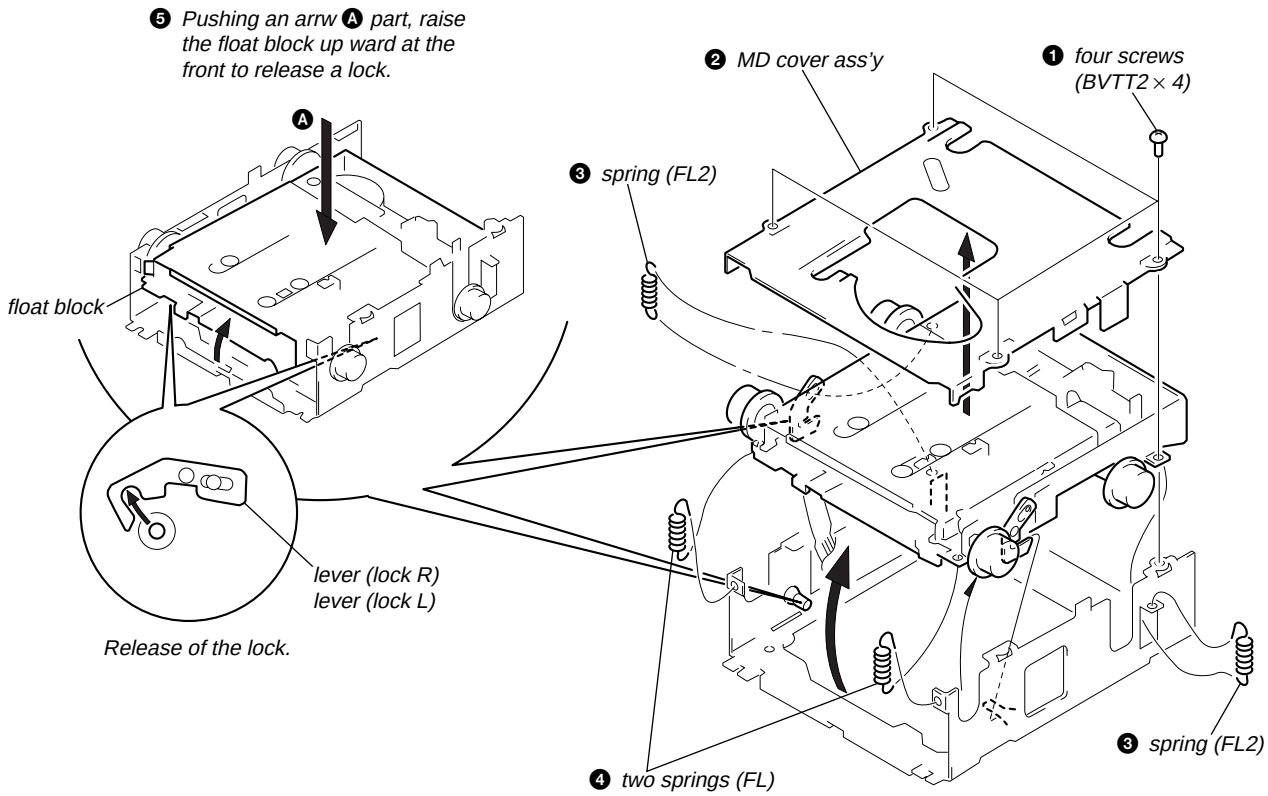
MAIN BOARD



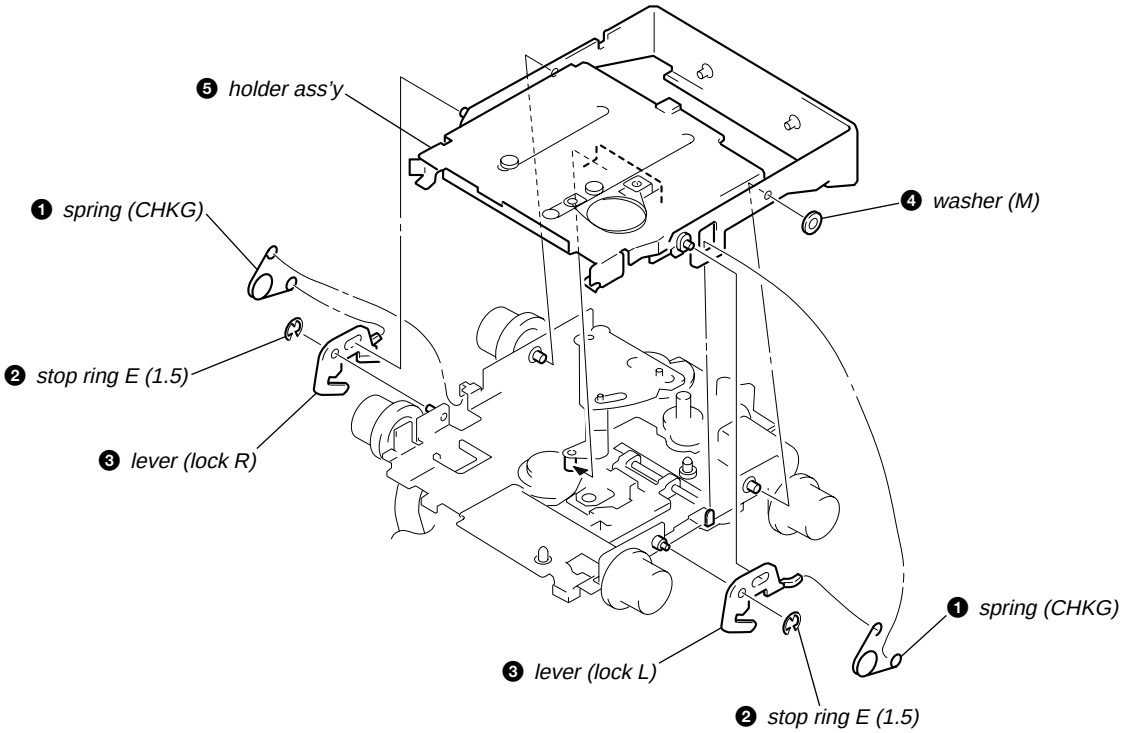
SERVO BOARD



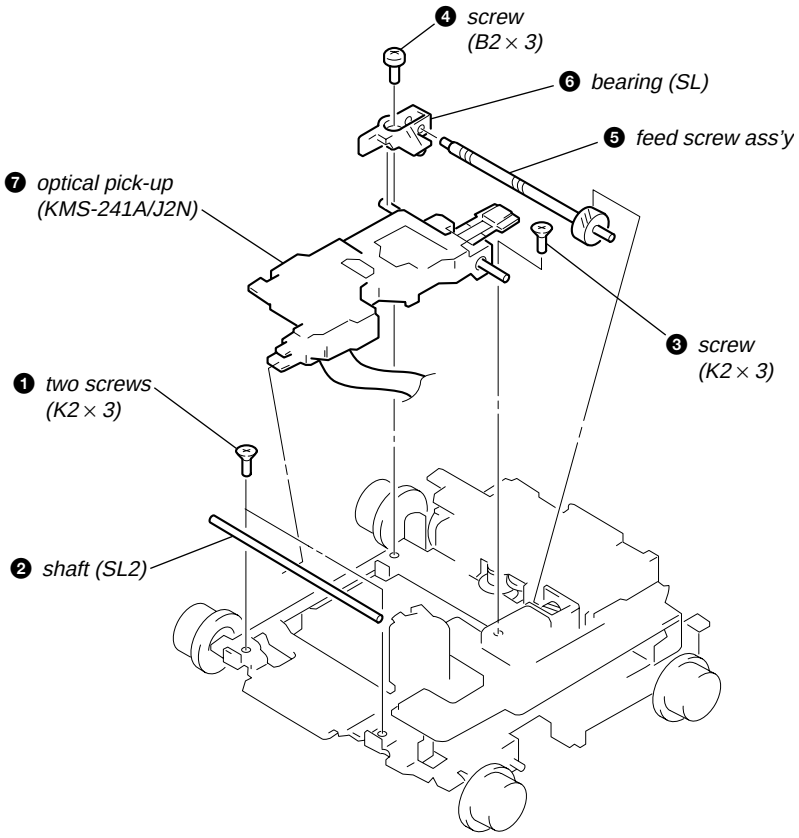
FLOAT BLOCK


❺ Pushing an arrw Ⓐ part, raise the float block up ward at the front to release a lock.
Ⓐ
float block
lever (lock R)
lever (lock L)
Release of the lock.
❷ MD cover ass'y
❶ four screws (BVTT2 × 4)
❸ spring (FL2)
❸ spring (FL2)
❹ two springs (FL)

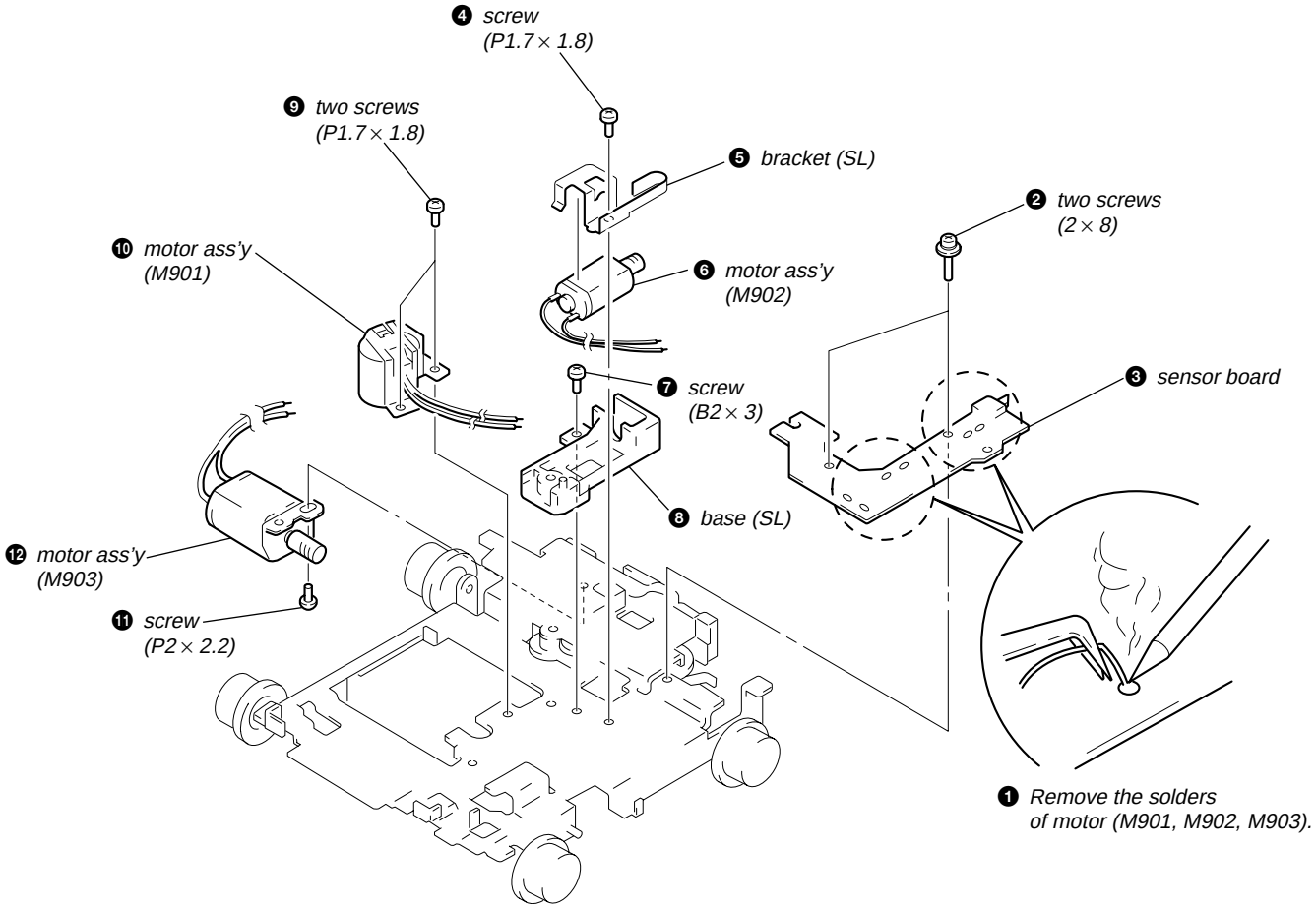
HOLDER ASS'Y



OPTICAL PICK-UP (KMS-241A/J2N)



MOTOR ASS'Y (M901, M902, M903), SENSOR BOARD



SECTION 4
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM (MW) Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

<Set the Test Mode>

1. Set the "power select" switch (S700) is "A (ON)" position.
2. Turn ON the regulated power supply. (All LEDs on the set lights up, and the clock is displayed.)
   Note: Press the [OFF] button, if the clock is not displayed.
3. Push the preset [4] button.
4. Push the preset [5] button.
5. Press the preset [1] button for more than two seconds.
6. Then the display indicates all lights, the test mode is set.

<Release the Test mode>

1. Push the [OFF] button.
2. Return the "power select" switch (S700) to initially set position.

See the adjustment location from on page 20 for the adjustment.

MD SECTION

MD section adjustments are done automatically in this set.

TUNER SECTION

0 dB=1 µV

Cautions during repair
When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

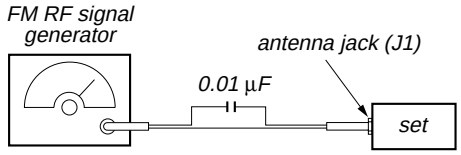
Note:
Adjust the tuner section in the sequence shown below.

1. FM Auto Scan/Stop Level Adjustment.
2. FM Stereo Separation Adjustmnet.
3. AM (MW) Auto Scan/Stop Level Adjustment.
4. RDS S-Meter Adjustment.

FM Auto Scan/Stop Level Adjustment

Setting:

[SOURCE] button: FM

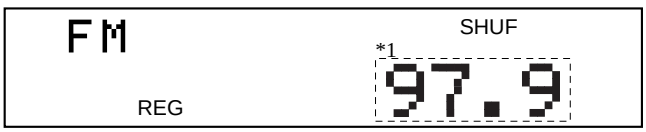


Carrier frequency: 97.9 MHz (MDX-C7900)
98.0 MHz (MDX-C7900R)
Output level : 22 dB (12.6 µV)
Mode : mono
Modulation : 1 kHz, 22.5 kHz deviation (30%)

Procedure:

1. Set to the test mode.
2. Push the [SOURCE] button and set to FM.

Display



3. Adjust with the volume RV2 on TU1 so that the "FM" indication turns to "FM0" indication on the display window.
   But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display

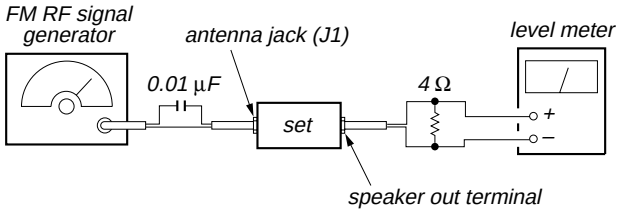
*1: MDX-C7900R is indicates "98.00".

Adjustment Location: See page 20.

FM Stereo Separation Adjustment

Setting:

[SOURCE] button: FM



		MDX-C7900	MDX-C7900R
Carrier frequency		97.9 MHz	98.0 MHz
Output level		60 dB (1 mV)	70 dB (3.2 mV)
Mode		stereo	stereo
Modulation	main	1 kHz, 33.75 kHz deviation (45%)	1 kHz, 20 kHz deviation (22.6%)
	sub	1 kHz, 33.75 kHz deviation (45%)	1 kHz, 20 kHz deviation (22.6%)
	19 kHz pilot	7.5 kHz deviation (10%)	7.5 kHz deviation (10%)

Procedure:

FM Stereo signal generator output channel	Level meter connection	Level meter reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU1 for minimum reading.

L-CH Stereo separation: Ⓐ-Ⓑ
R-CH Stereo separation: Ⓒ-Ⓓ
The separations of both channels should be equal.

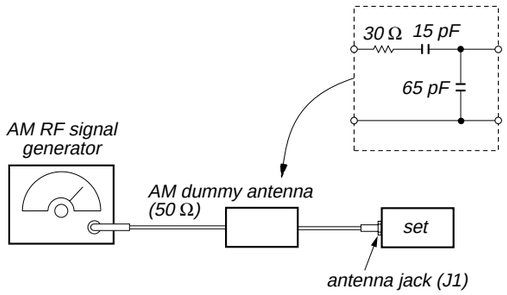
Specification: Separation more than 30 dB

Adjustment Location: See page 20.

AM (MW) Auto Scan/Stop Level Adjustment

Setting:

SOURCE button (MDX-C7900): AM
SOURCE button (MDX-C7900R): MW



Carrier frequency: 1000 kHz (MDX-C7900)
999 kHz (MDX-C7900R)
30% amplitude modulation by 1 kHz signal
Output level : 33 dB (44.7 µV)

Procedure:

1. Set to the test mode. (See page 18.)
2. Push the SOURCE button and set to FM.
3. Push the MODE button and set to AM (MDX-C7900) or MW (MDX-C7900R).

Display

4. Adjust with the volume RV1 on TU1 so that the “AM” or “MW” indication turns to “AM0” or “MW0” indication on the display window.
   But, in case of already indicated “AM0” or “MW0”, turn the RV1 so that put out light “0” indication and adjustment.

Display

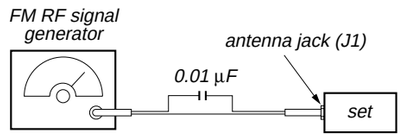
*2: MDX-C7900R is indicates “MW”.
*3: MDX-C7900R is indicates “999”.

Adjustment Location: See page 20.

RDS S-Meter Adjustment (MDX-C7900R)

Setting:

SOURCE button: FM



Carrier frequency: 98.0 MHz
Output level : 35 dB (56.2 µV)
Mode : mono
Modulation : no modulation

Procedure:

1. Set to the test mode. (See page 18.)
2. Push the SOURCE button and set to FM.

Display

3. Push the preset 10 button.
4. Adjust RV1 on MAIN board so that the display indication is “15.8”.

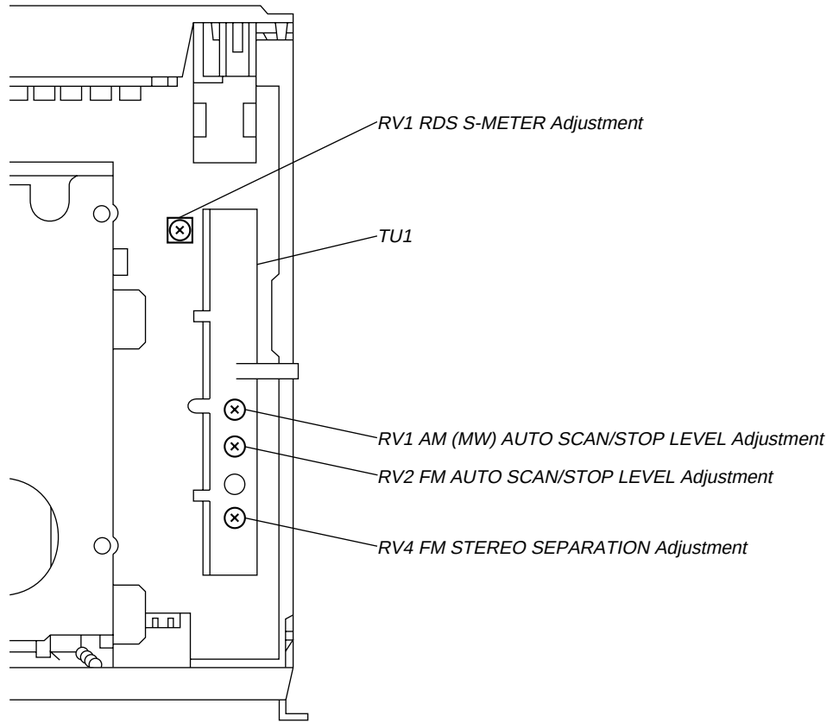
Display

Specification: Display indication : 15.6 to 16.4

Adjustment Location: See page 20.

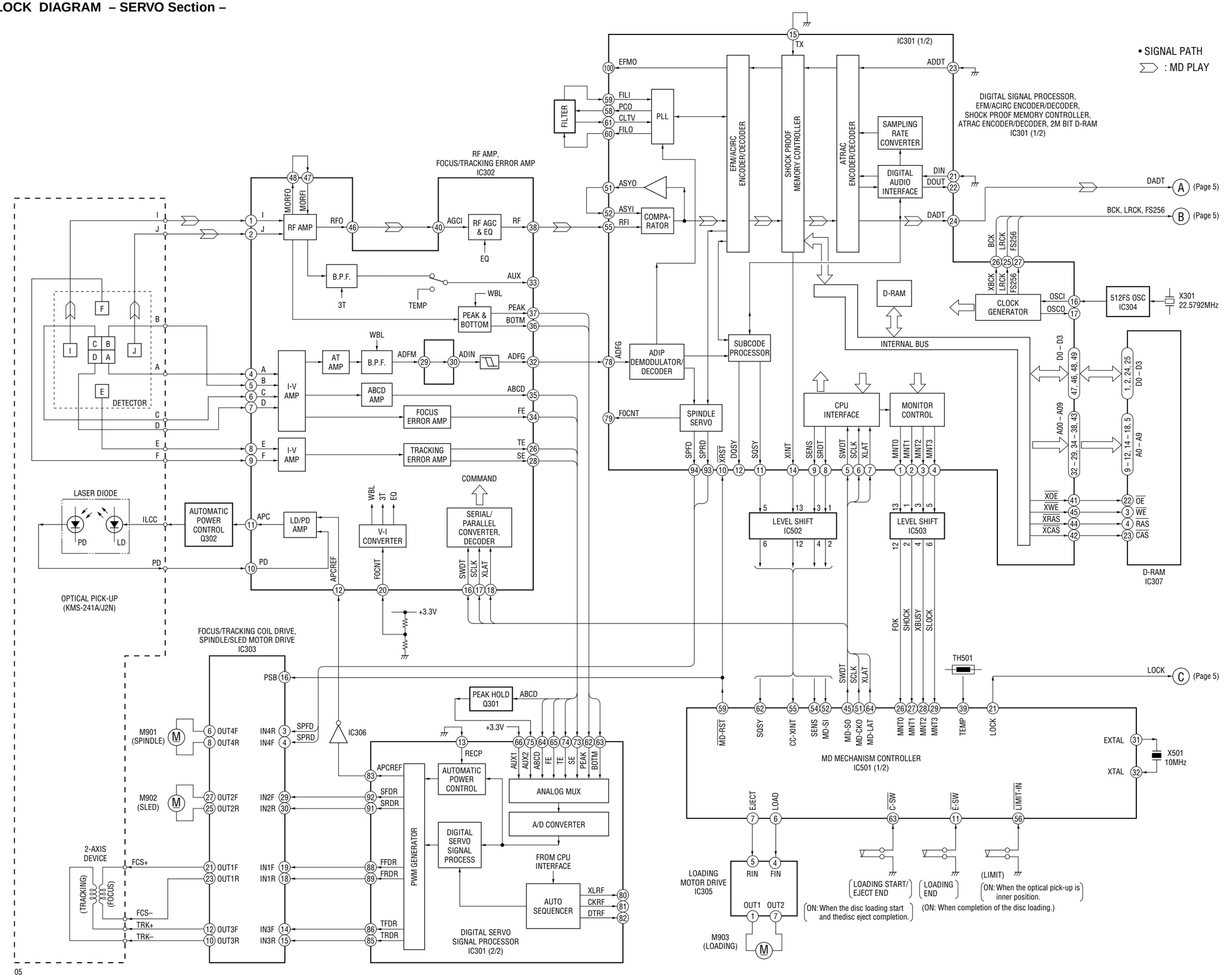
Adjustment Location:

– SET UPPER VIEW –


RV1 RDS S-METER Adjustment
TU1
RV1 AM (MW) AUTO SCAN/STOP LEVEL Adjustment
RV2 FM AUTO SCAN/STOP LEVEL Adjustment
RV4 FM STEREO SEPARATION Adjustment

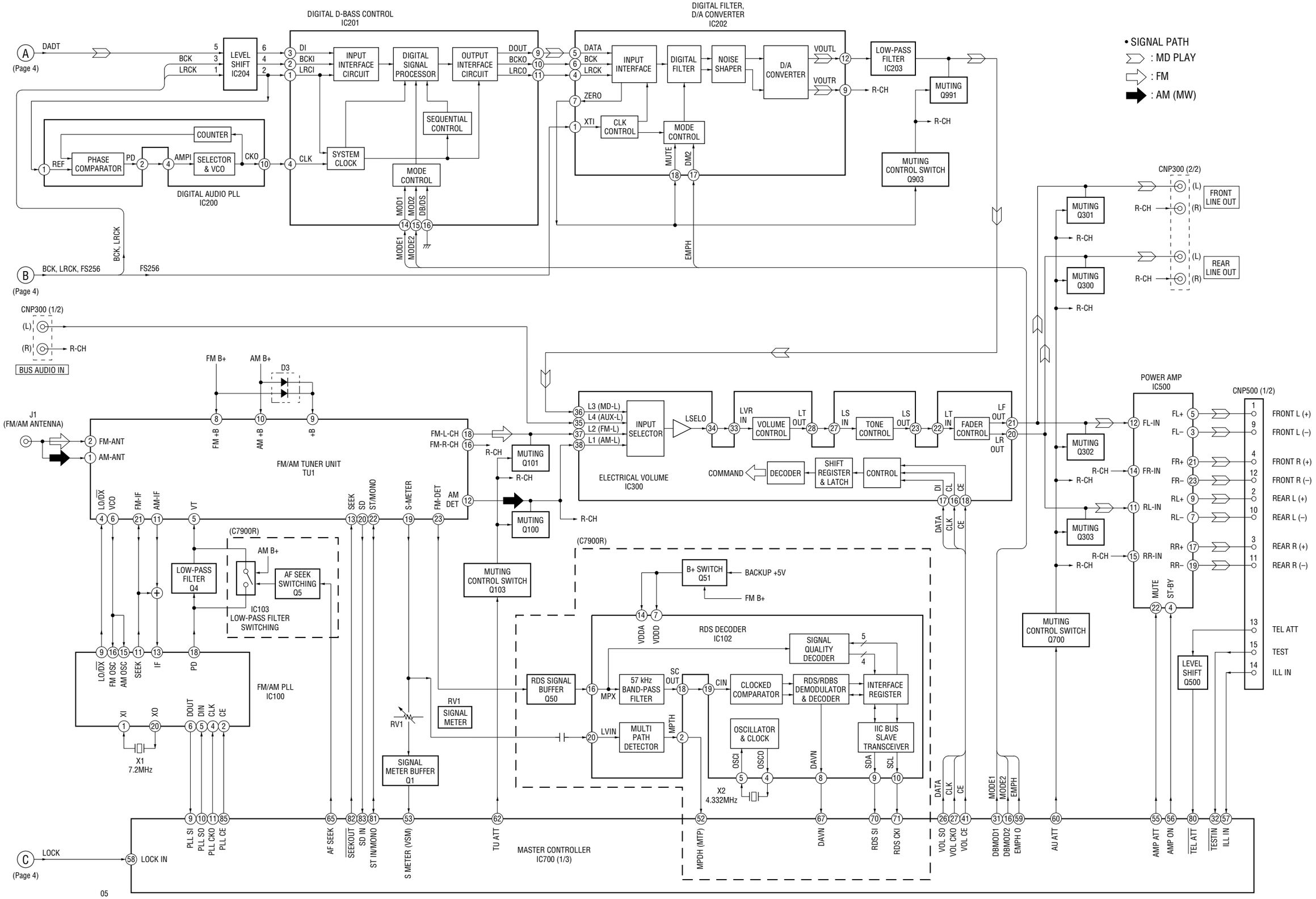
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM – SERVO Section –

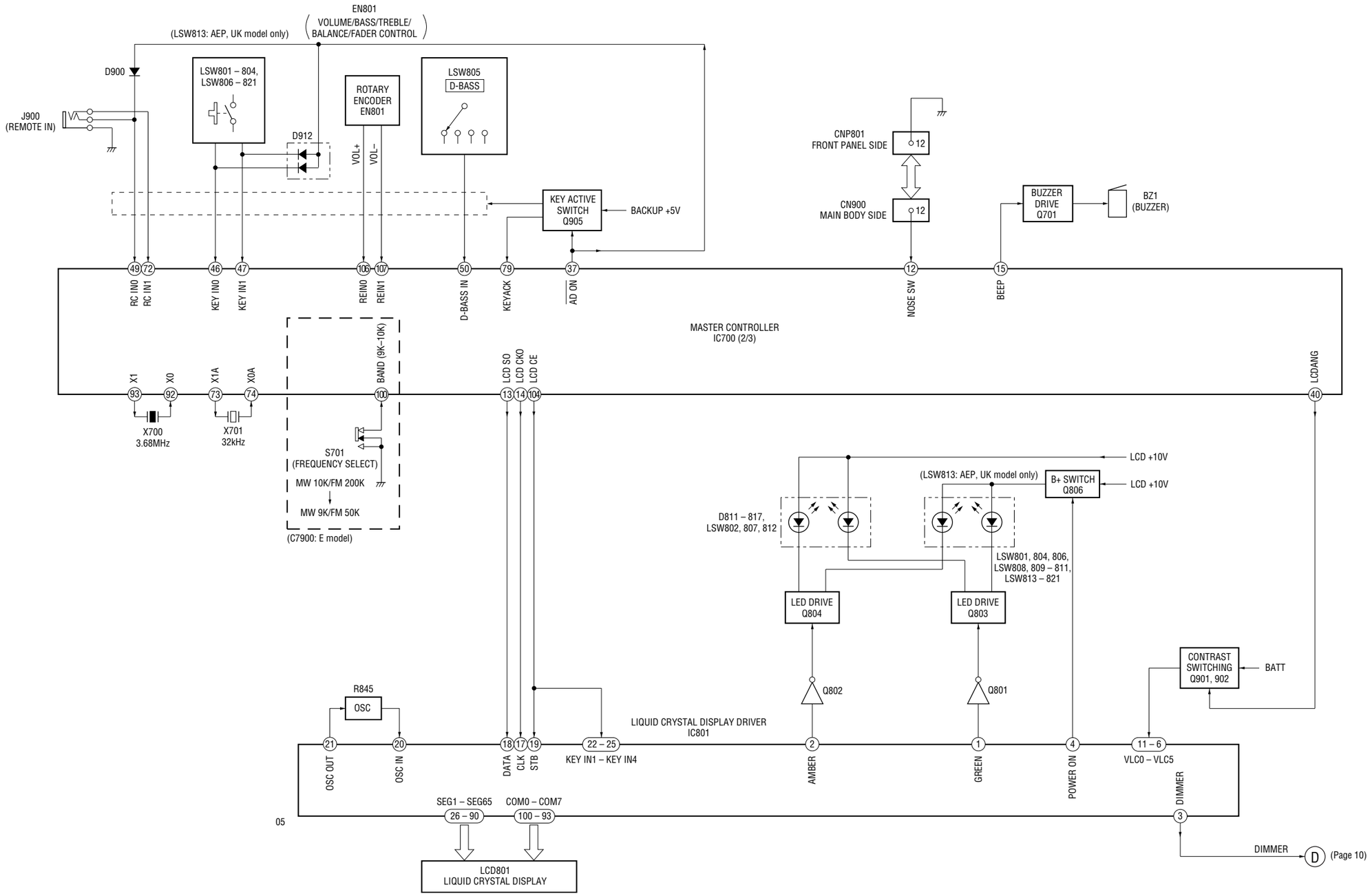


05

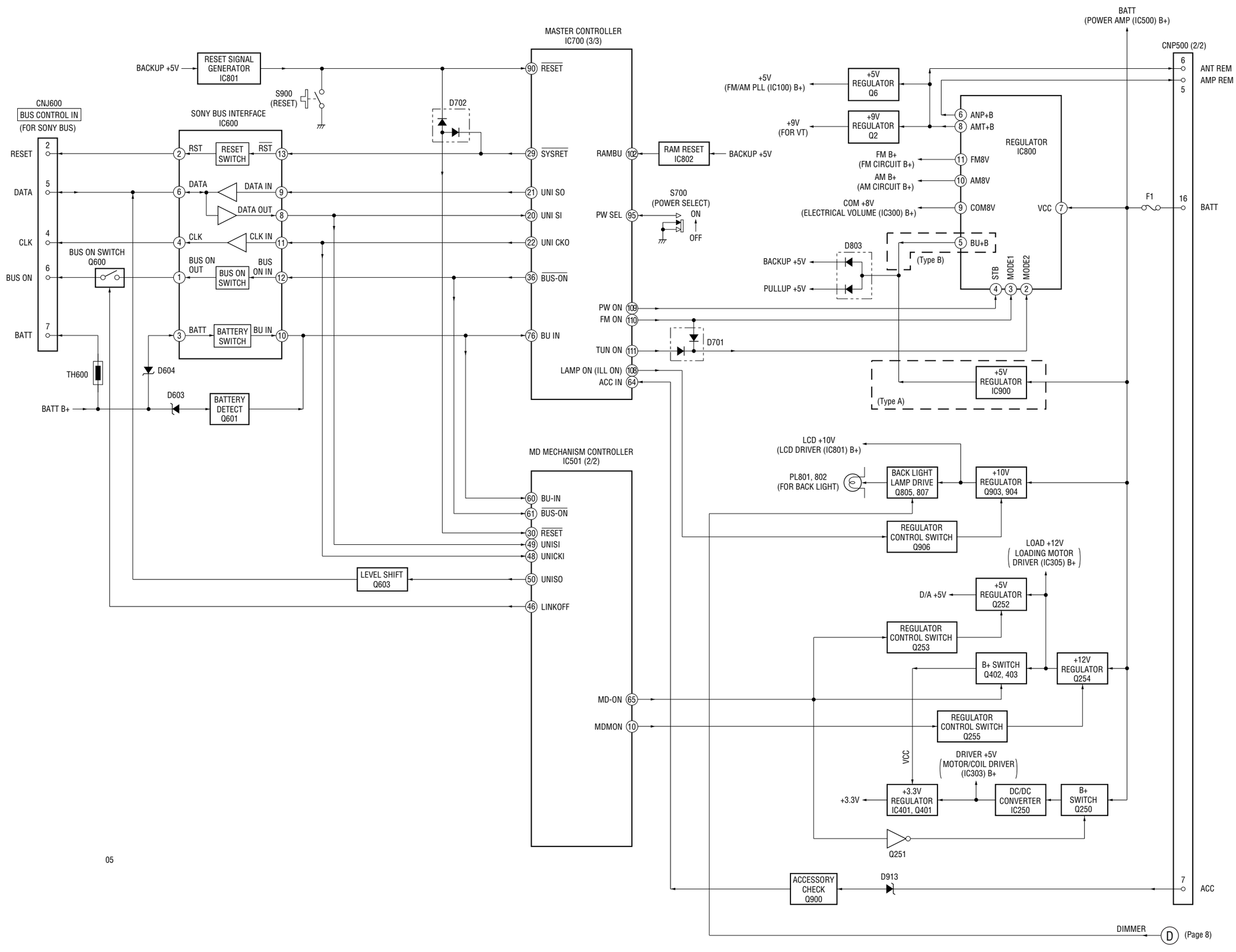
5-2. BLOCK DIAGRAM – MAIN Section –



5-3. BLOCK DIAGRAM – DISPLAY/KEY CONTROL Section –



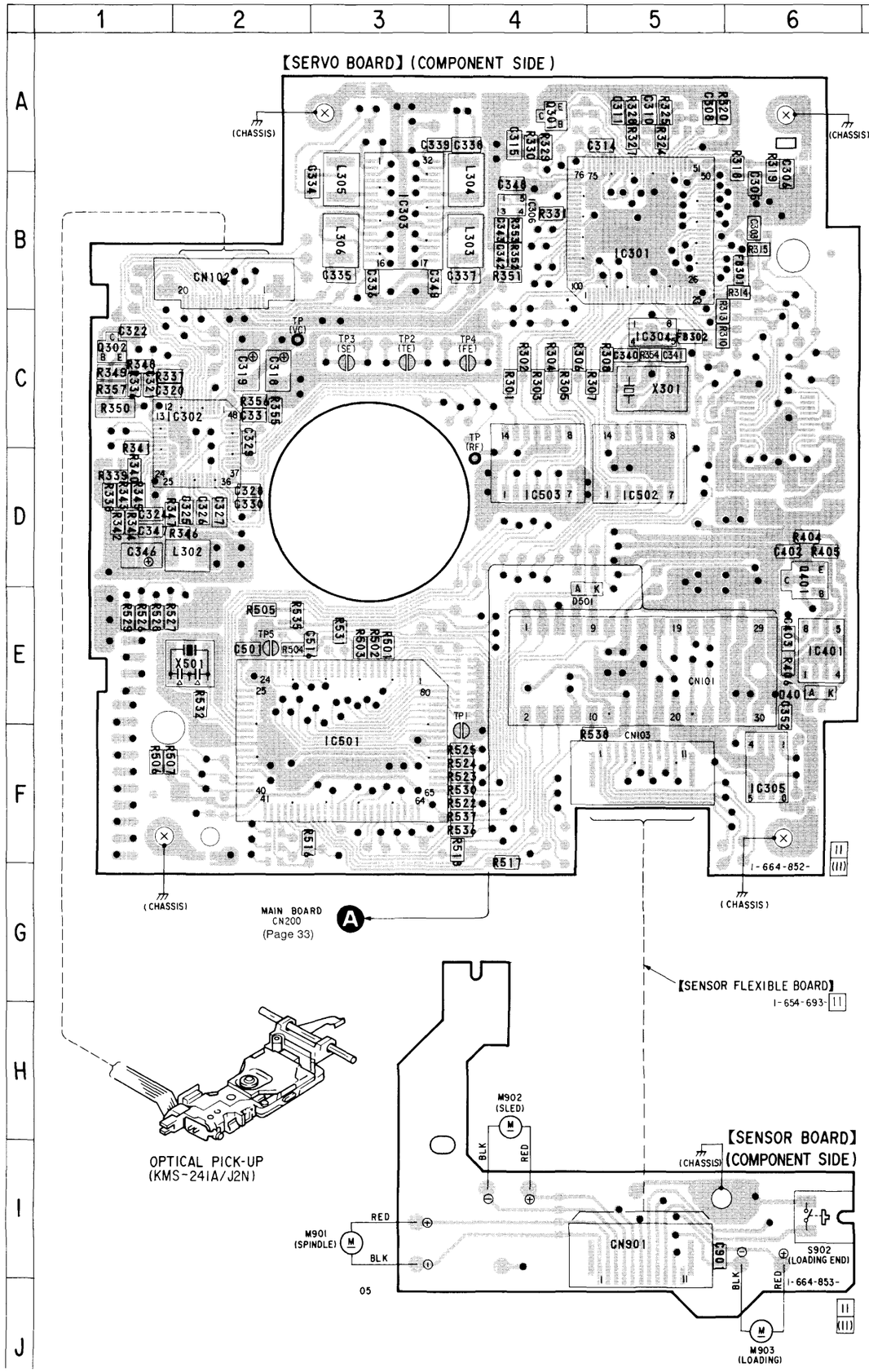
5-4. BLOCK DIAGRAM – BUS CONTROL/POWER SUPPLY Section –



5-5. PRINTED WIRING BOARDS – MECHANISM DECK Section –

- **Semiconductor Location**

Ref. No.	Location
D401	E-6
D501	E-4
IC301	B-5
IC302	C-2
IC303	B-3
IC304	C-5
IC305	F-6
IC306	B-4
IC307	B-8
IC401	E-6
IC501	F-3
IC502	D-5
IC503	D-4
Q301	A-4
Q302	C-1
Q401	D-6
Q402	E-7
Q403	E-7



Note on Printed Wiring Boards:

- ● : Through hole.
- △ : internal component.
- ▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

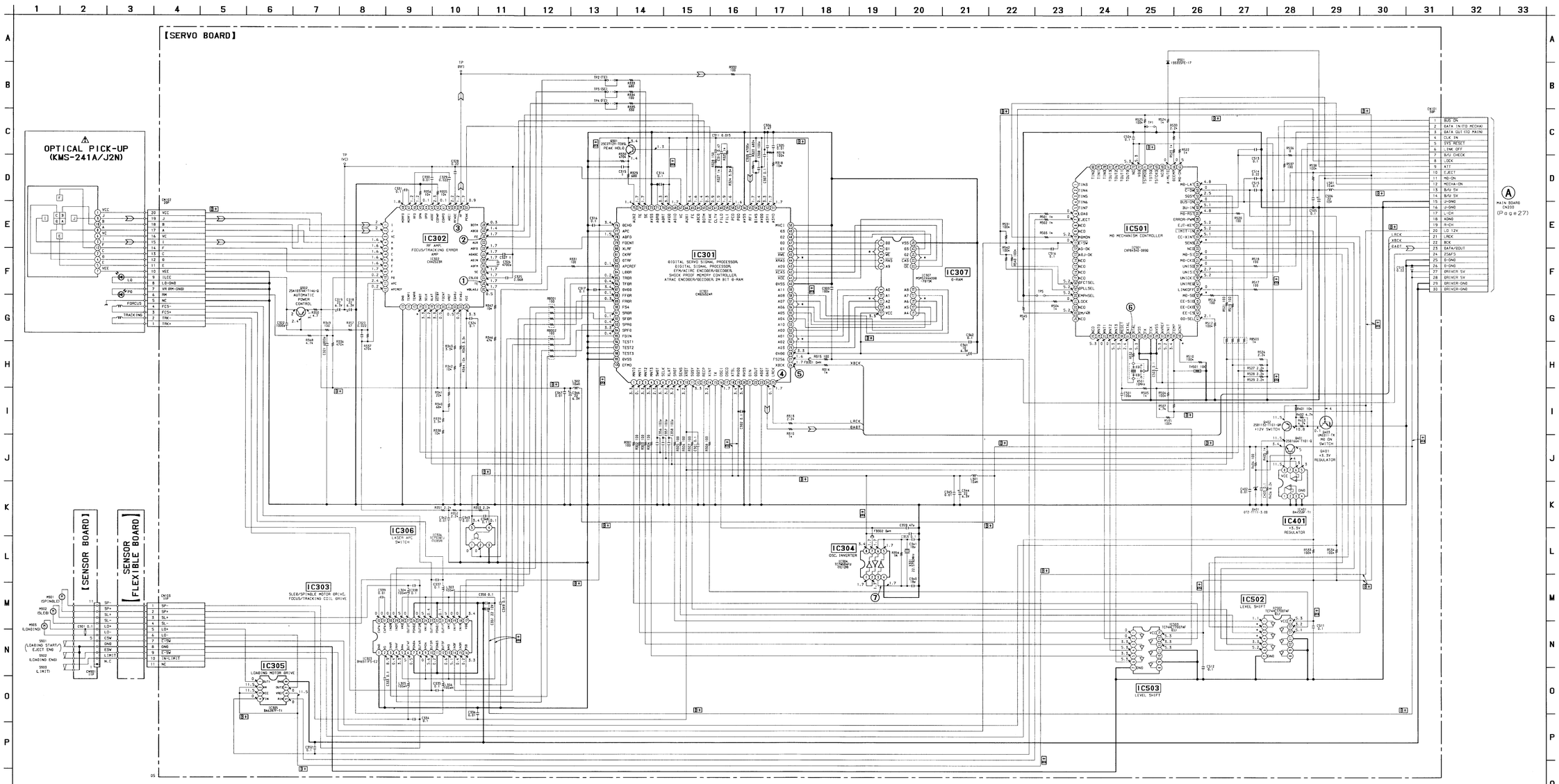
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : MD
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  Σ : MD

5-6. SCHEMATIC DIAGRAM – MECHANISM DECK Section – • See page 39 for IC Block Diagrams and page 45 for Waveforms.



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  《 》 : LW
  < > : MD
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ∑ : MD
  ⇨ : BUS AUDIO IN
- Abbreviation
  CND : Canadian
  G : German

5-7. SCHEMATIC DIAGRAM – MAIN Section –

• See page 3 for Type A/Type B Discrimination. • See page 42 for IC Block Diagrams and page 45 for Waveforms.

• **Semiconductor Location (Component Side)**

Ref. No.	Location	Ref. No.	Location
D3	F-11	IC204	E-4
D5	H-12	IC250	J-6
D200	J-5	IC300	E-8
D201	D-7	IC600	D-2
D202	D-6	IC700	I-8
D302	B-12	IC801	J-2
D303	G-8	IC802	J-2
D500	B-5		
D501	B-5	Q1	D-11
D504	B-7	Q2	C-11
D505	B-6	Q4	F-13
D506	B-7	Q5	H-12
D507	B-8	Q6	C-13
D508	B-8	Q50	I-13
D600	B-2	Q51	J-13
D601	B-2	Q100	H-13
D602	C-2	Q102	G-12
D603	D-3	Q103	H-12
D701	K-7	Q250	J-5
D702	K-10	Q252	D-7
D800	F-3	Q253	D-6
D801	E-4	Q254	C-6
D802	I-2	Q255	D-5
D803	I-2	Q300	C-7
D900	B-1	Q301	C-7
D901	J-6	Q302	C-7
D902	K-10	Q303	C-7
D903	K-10	Q400	C-8
D904	K-9	Q401	C-9
D907	J-7	Q402	B-8
D909	J-11	Q403	B-9
D910	J-11	Q500	B-6
D911	J-11	Q600	D-3
D912	J-11	Q603	D-2
D913	D-4	Q700	G-7
D914	G-1	Q900	D-4
		Q901	K-7
IC100	E-12	Q902	K-6
IC102	I-12	Q905	K-10
IC103	H-12	Q906	J-7
IC200	F-3	Q991	G-7
IC202	G-5	Q993	G-5
IC203	H-5		

Note on Printed Wiring Board:

- ⟷ : parts extracted from the component side.
- ▲ : internal component.
- ▒▒ : Pattern from the side which enables seeing.

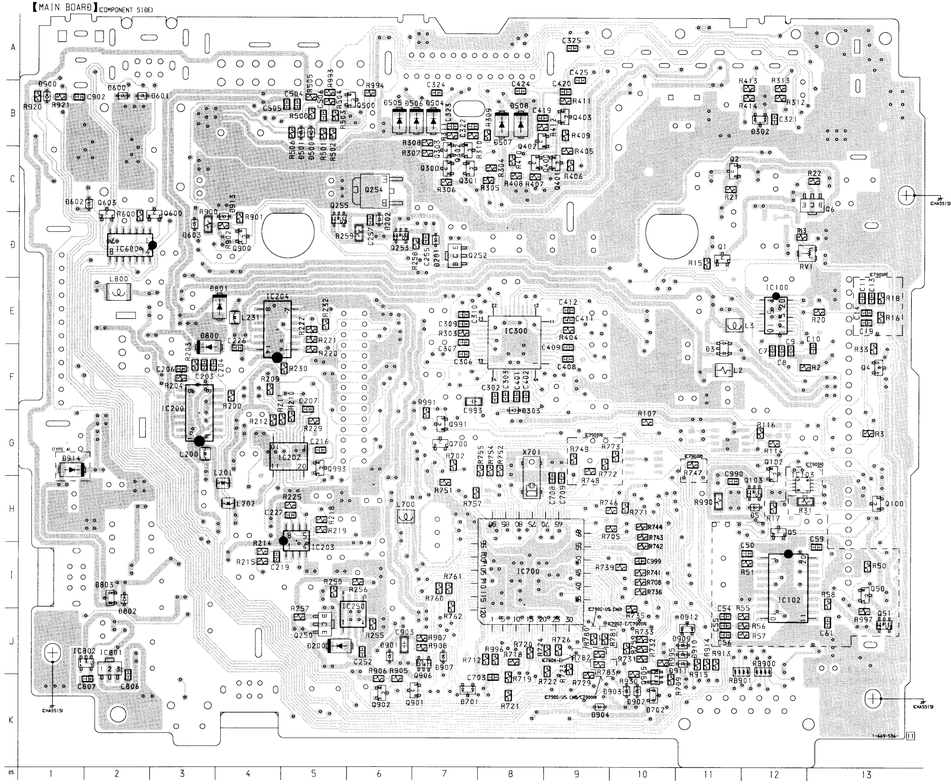
(The other layers' patterns are not indicated.)

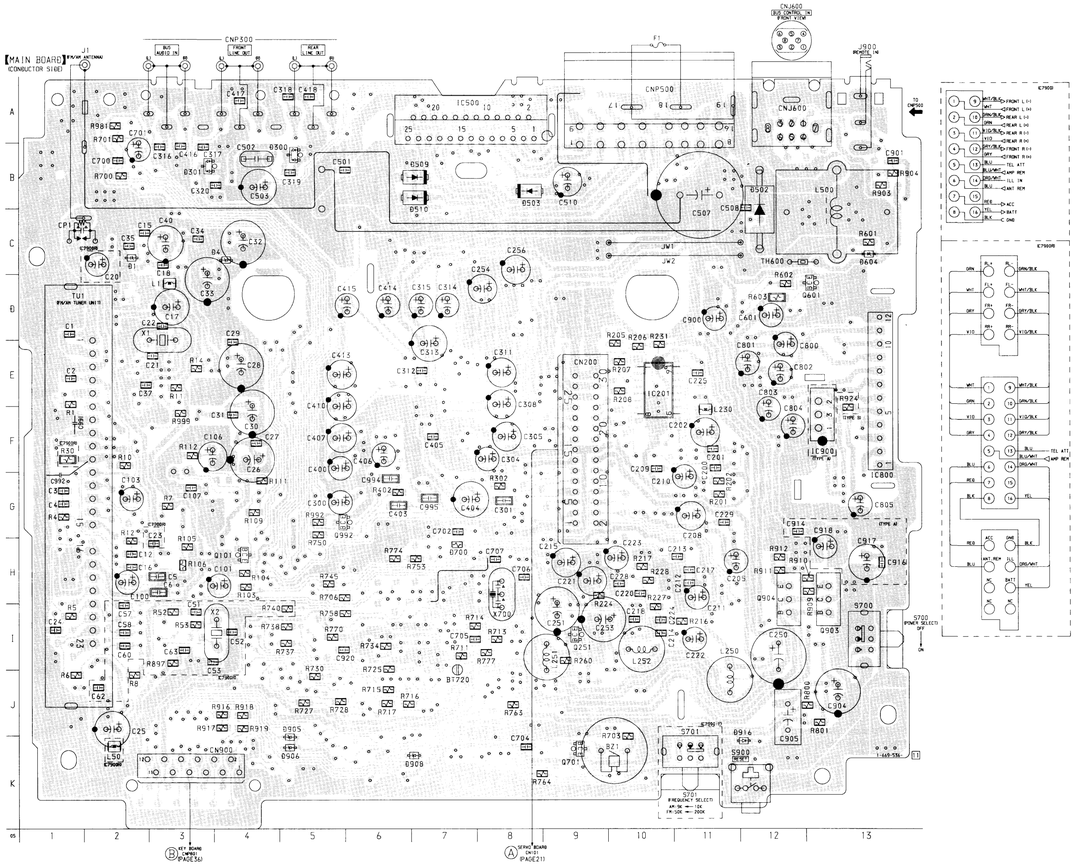
Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  CND : Canadian

5-8. PRINTED WIRING BOARD – MAIN Section –

• See page 3 for Type A/Type B Discrimination.





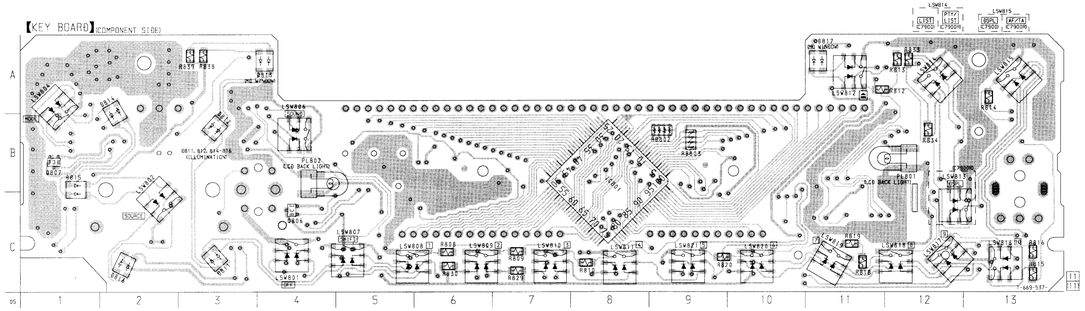
• **Semiconductor Location (Conductor Side)**

Ref. No.	Location
D1	C-2
D4	C-4
D300	B-5
D301	B-3
D502	B-12
D503	B-8
D509	B-7
D510	B-7
D604	C-13
D700	H-7
D905	K-5
D906	K-5
D908	K-7
D916	K-12
IC201	E-10
IC500	A-7
IC800	E-13
IC900	F-13
Q101	H-4
Q251	I-9
Q601	D-13
Q701	K-9
Q903	H-13
Q904	H-12
Q992	G-5

• Semiconductor Location (Component Side)

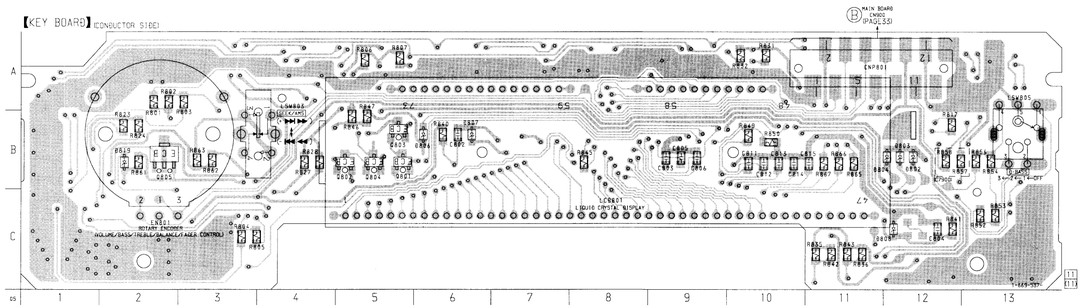
Ref. No.	Location
D811	C-3
D812	B-3
D813	A-4
D814	A-2
D815	B-1
D816	C-2
D817	A-11
IC801	B-8
Q806	C-4
Q807	B-1

5-9. PRINTED WIRING BOARD – PANEL Section –



• Semiconductor Location (Conductor Side)

Ref. No.	Location
D802	B-12
D803	B-12
D804	B-12
D806	B-6
D807	B-6
D808	C-12
D819	B-2
Q801	B-5
Q802	B-5
Q803	B-5
Q804	B-5
Q805	B-2

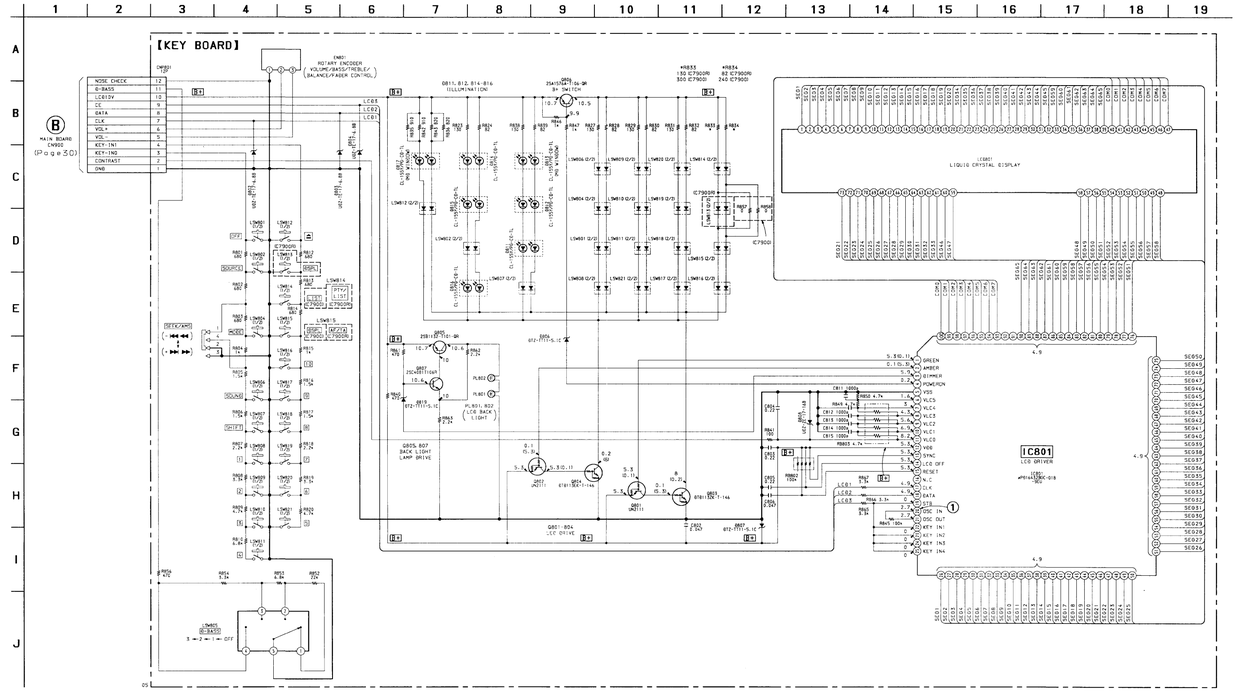


Note on Printed Wiring Board:
- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

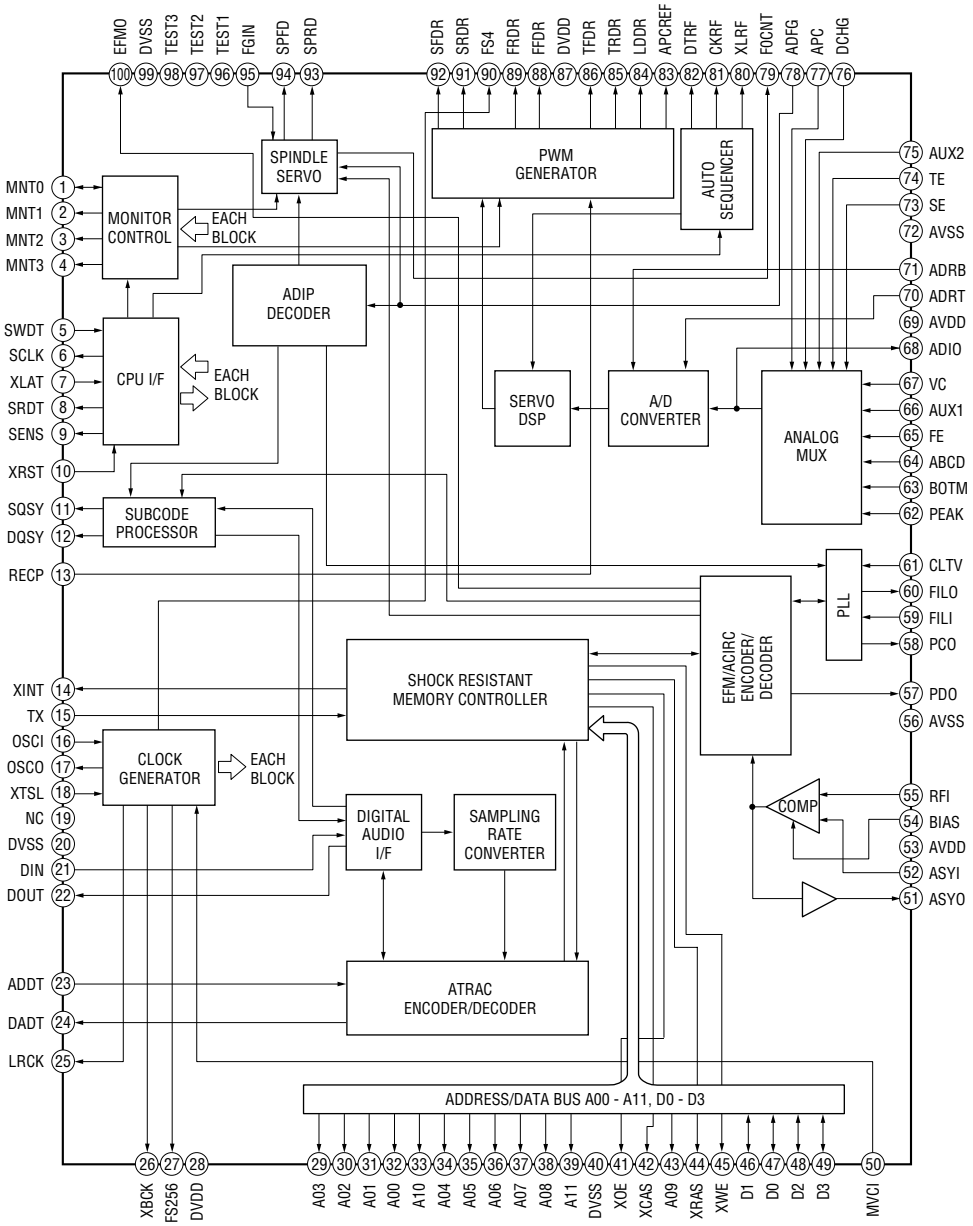
5-10. SCHEMATIC DIAGRAM – PANEL Section – • See page 46 for Waveform.



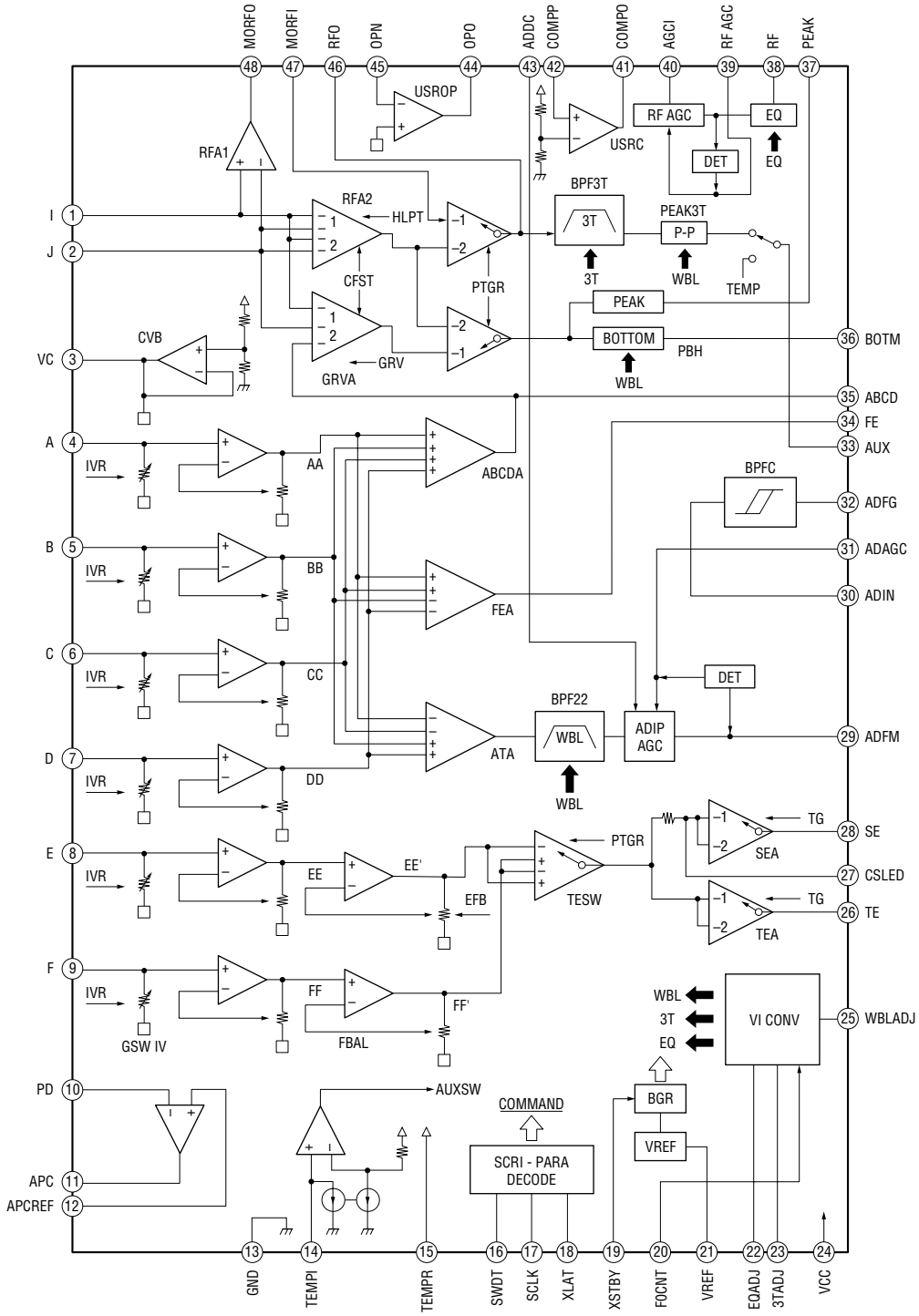
Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM (AMBER Illumination)
  ( ) : FM (GREEN Illumination)
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

• IC Block Diagrams
– SERVO Board –

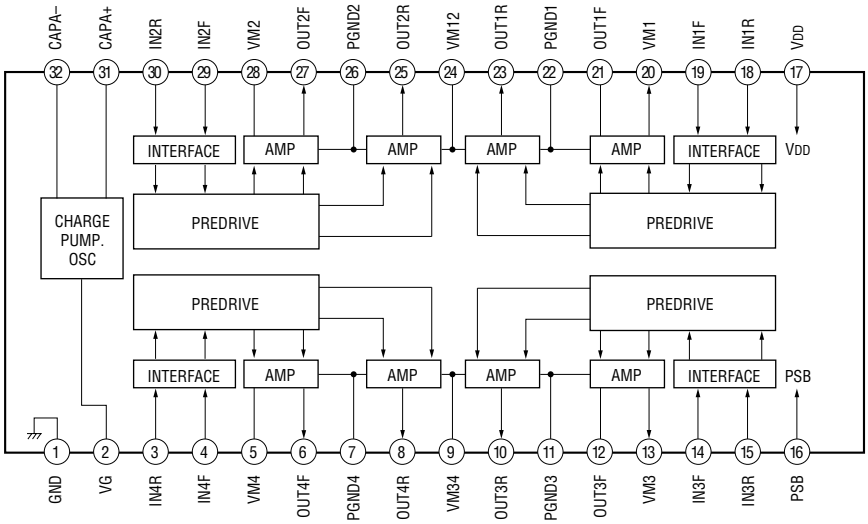
IC301 CXD2652AR



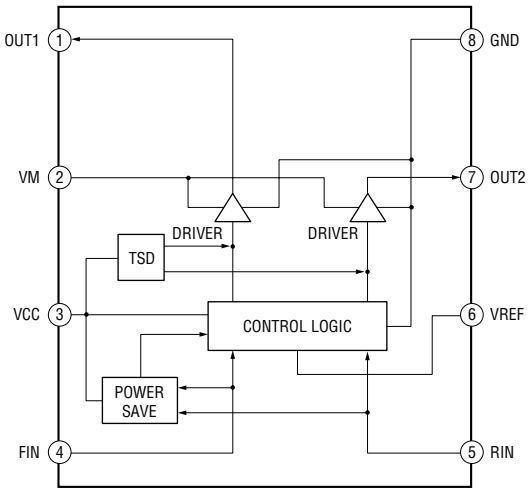
IC302 CXA2523R



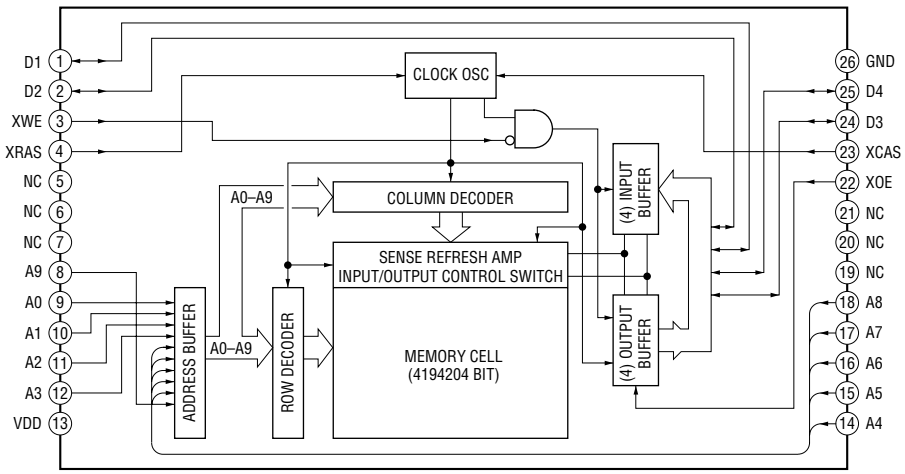
IC303 BH6511FS-E2



IC305 BA6287F

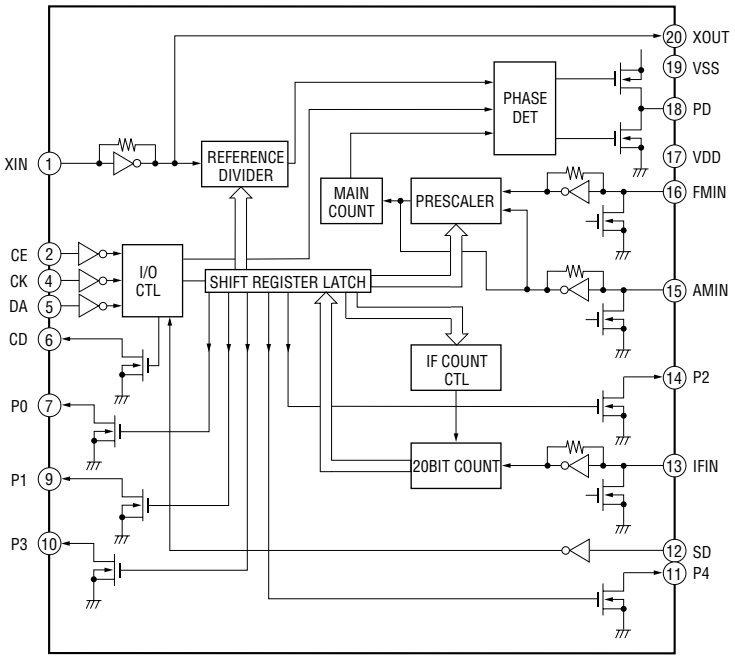


IC307 MSM51V4400-70TS-K

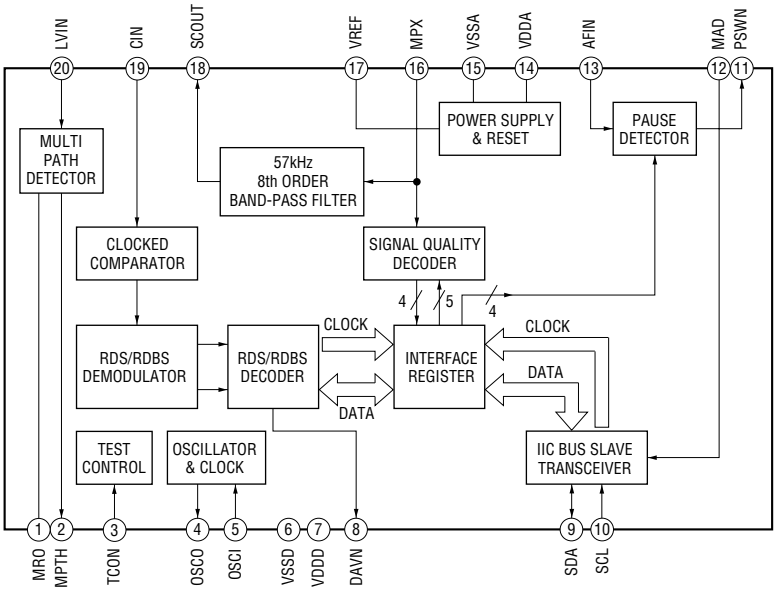


– MAIN Board –

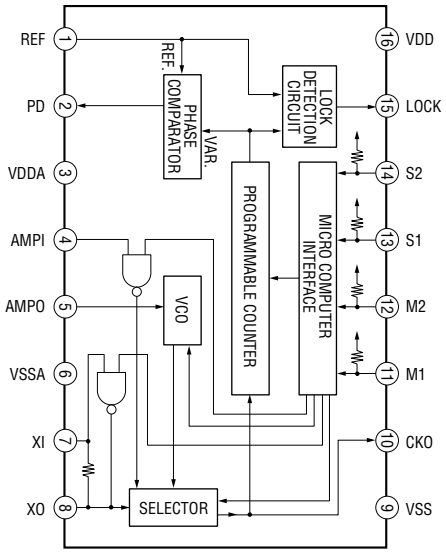
IC100 BU2624FV-E2



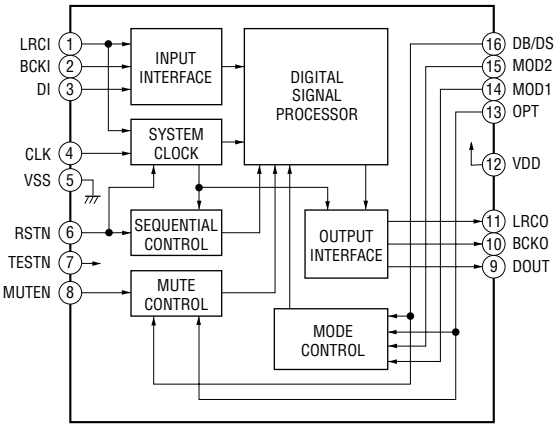
IC102 SAA6588T-118 (MDX-C7900R)



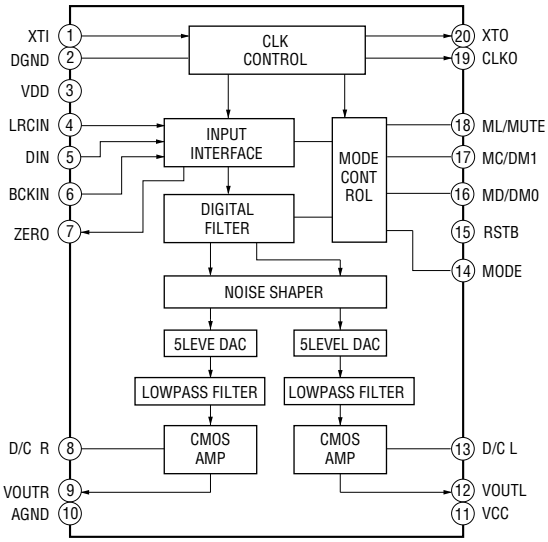
IC200 TC9246F-TP1



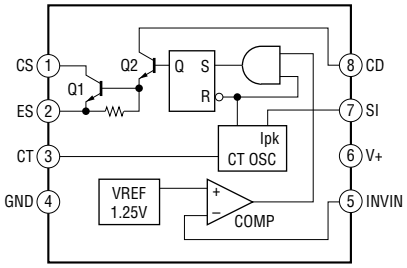
IC201 SM5852FS-E2



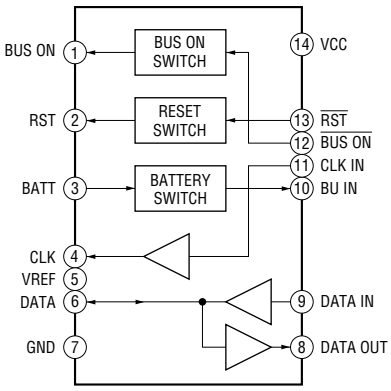
IC202 PCM1717E-ST2



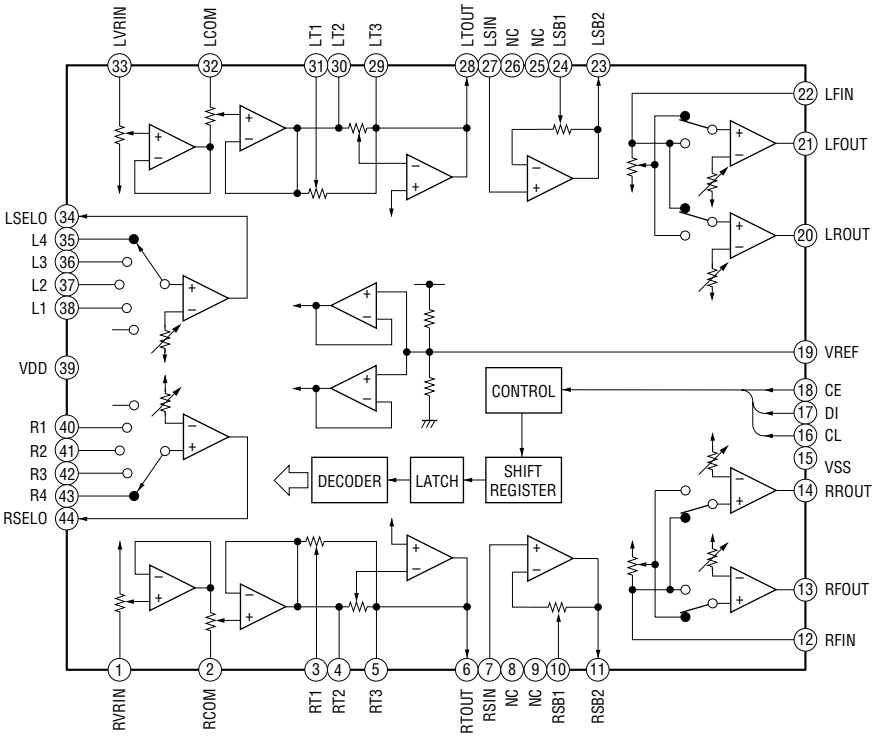
IC250 NJM2360AM (TE2)



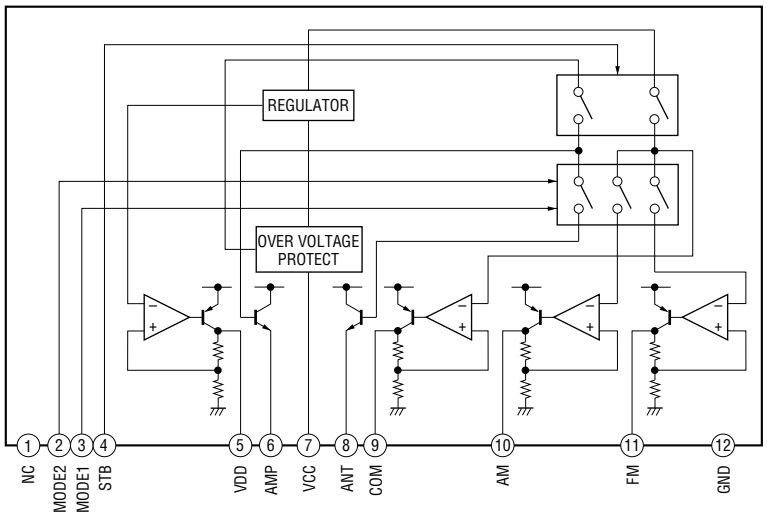
IC600 BA8270F-E2



IC300 LC75374E



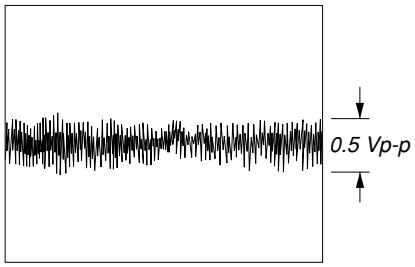
IC800 BA3918-V3



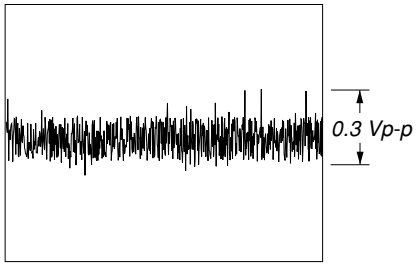
• Waveforms

– MECHANISM DECK Section –

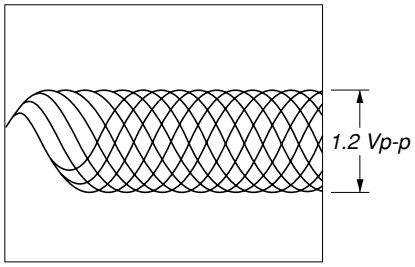
❶ IC302 ㉖ (TE) (PLAY MODE)



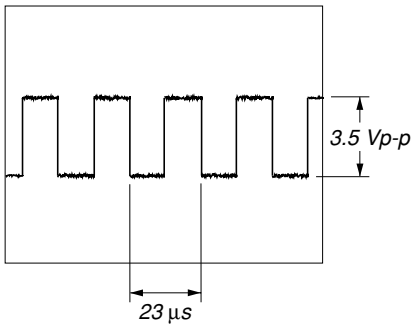
❷ IC302 ㉞ (FE) (PLAY MODE)



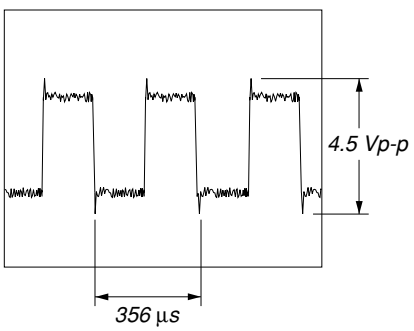
❸ IC302 ㊳ (RF) (PLAY MODE)



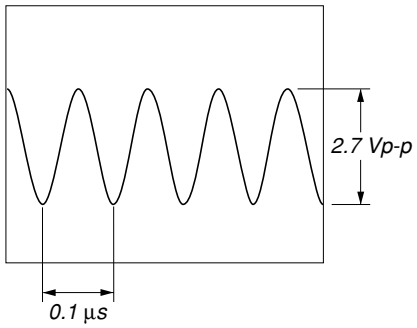
❹ IC301 ㉕ (LRCK) (PLAY MODE)



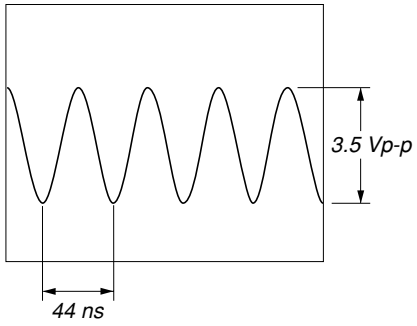
❺ IC301 ㉖ (XBCK) (PLAY MODE)



❻ IC501 ㉛ (EXTAL) (PLAY MODE)

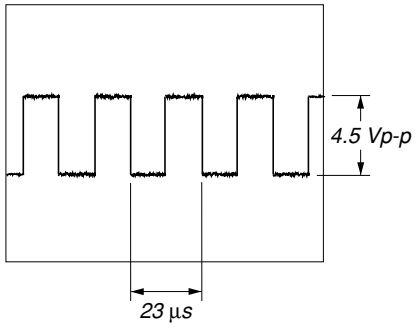


❼ IC304 ③ (IN) (PLAY MODE)

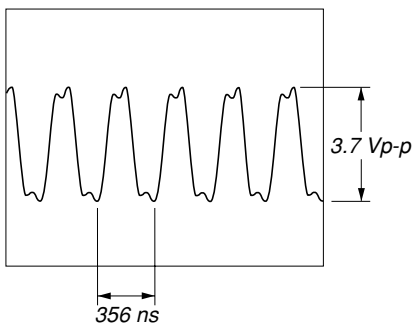


– MAIN Section –

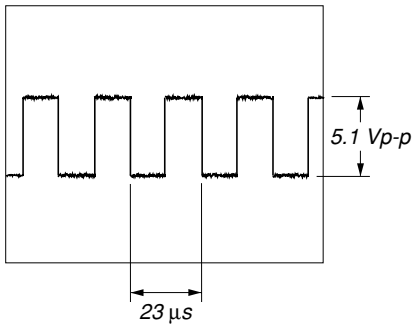
❶ IC204 ① (IN) (PLAY MODE)



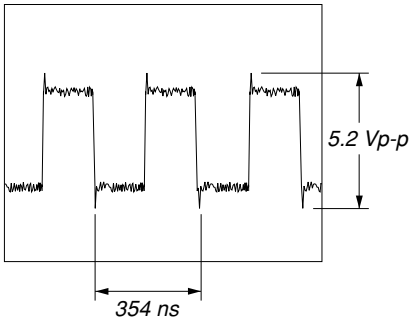
❷ IC204 ③ (IN) (PLAY MODE)



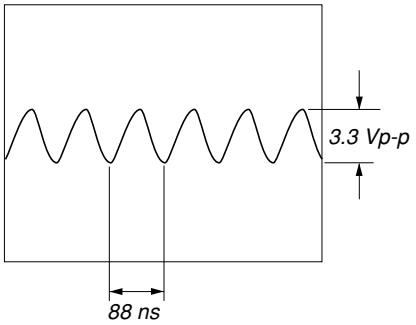
❸ IC201 ① (LRCL) (PLAY MODE)



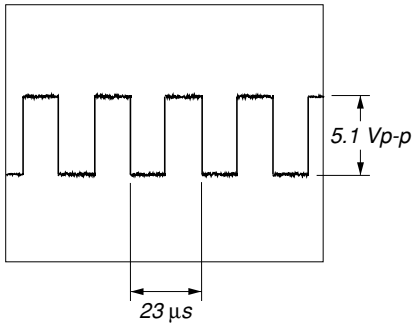
❹ IC201 ② (BCKI) (PLAY MODE)



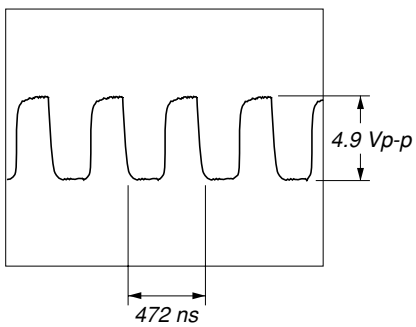
❺ IC202 ① (XTI) (PLAY MODE)



❻ IC202 ④ (LRCK) (PLAY MODE)

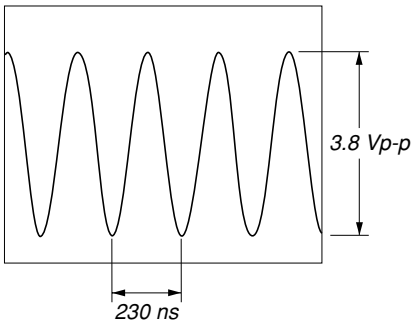


❼ IC202 ⑥ (BCK) (PLAY MODE)

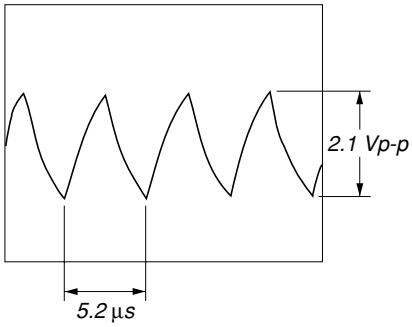


– PANEL Section –

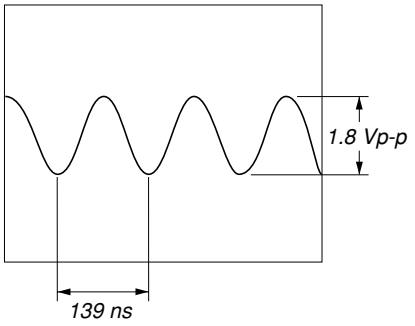
❽ IC102 ⑤ (OSCI) (FM MODE)



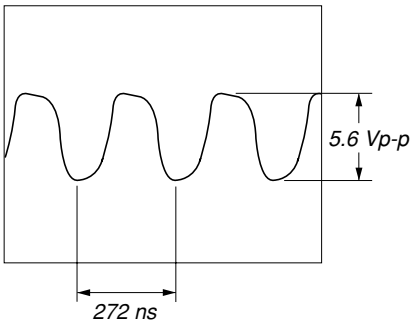
❶ IC801 ⑳ (OSC IN)



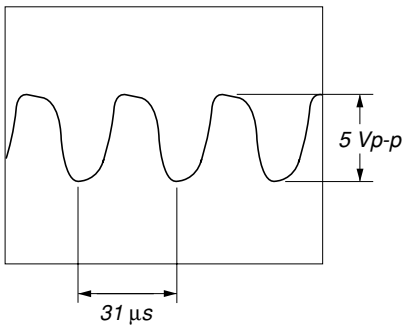
❾ IC100 ① (XI) (RADIO MODE)



❿ IC700 ㉝ (X1)



⓫ IC700 ㉓ (X1A)



5-11. IC PIN FUNCTION DESCRIPTION

- **SERVO BOARD IC301 CXD2652AR**
  (DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, EFM/ACIRC ENCODER/DECODER, SHOCK PROOF MEMORY CONTROLLER, ATRAC ENCODER/DECODER, 2M BIT D-RAM)

Pin No.	Pin Name	I/O	Function
1	MNT0	O	Focus OK signal output to the MD mechanism controller (IC501) "H" is output when focus is on ("L": NG)
2	MNT1	O	Track jump detection signal output to the MD mechanism controller (IC501)
3	MNT2	O	Monitor 2 signal output to the MD mechanism controller (IC501)
4	MNT3	O	Monitor 3 signal output to the MD mechanism controller (IC501)
5	SWDT	I	Writing serial data signal input from the MD mechanism controller (IC501)
6	SCLK	I	Serial data transfer clock signal input from the MD mechanism controller (IC501)
7	XLAT	I	Serial data latch pulse signal input from the MD mechanism controller (IC501)
8	SRDT	O (3)	Reading serial data signal output to the MD mechanism controller (IC501)
9	SENS	O (3)	Internal status (SENSE) output to the MD mechanism controller (IC501)
10	$\overline{\text{XRST}}$	I	Reset signal input from the MD mechanism controller (IC501) "L": reset
11	SQSY	O	Subcode Q sync (SCOR) output to the MD mechanism controller (IC501) "L" is output every 13.3 msec Almost all, "H" is output
12	DQSY	O	Digital In U-bit CD format subcode Q sync (SCOR) output terminal "L" is output every 13.3 msec Almost all, "H" is output Not used (open)
13	RECP	I	Laser power selection signal input terminal "H": recording mode, "L": playback mode (fixed at "L" in this set)
14	XINT	O	Interrupt status output to the MD mechanism controller (IC501)
15	TX	I	Recording data output enable signal input terminal Writing data transmission timing input (Also serves as the magnetic head on/off output) Not used (fixed at "L")
16	OSCI	I	System clock signal (512Fs=22.5792 MHz) input from the oscillator circuit
17	OSCO	O	System clock signal (512Fs=22.5792 MHz) output terminal Not used (open)
18	XTSL	I	Input terminal for the system clock frequency setting "L": 45.1584 MHz, "H": 22.5792 MHz (fixed at "H" in this set)
19	RVDD	—	Power supply terminal (+3.3V) (digital system)
20	RVSS	—	Ground terminal (digital system)
21	DIN	I	Digital audio signal input terminal when recording mode (for optical in) Not used (fixed at "L")
22	DOUT	O	Digital audio signal output terminal when playback mode (for optical out) Not used (open)
23	ADDT	I	Recording data input terminal Not used (fixed at "L")
24	DADT	O	Playback data output terminal Not used (open)
25	LRCK	O	L/R sampling clock signal (44.1 kHz) output terminal Not used (open)
26	XBCK	O	Bit clock signal (2.8224 MHz) output terminal Not used (open)
27	FS256	O	Clock signal (11.2896 MHz) output to the PCM1717E (IC202)
28	DVDD	—	Power supply terminal (+3.3V) (digital system)
29	A03	O	Address signal output to the D-RAM (IC307)
30	A02	O	
31	A01	O	
32	A00	O	
33	A10	O	Address signal output to the external D-RAM Not used (open)
34	A04	O	Address signal output to the D-RAM (IC307)
35	A05	O	
36	A06	O	
37	A07	O	
38	A08	O	
39	A11	O	Address signal output to the external D-RAM Not used (open)

Pin No.	Pin Name	I/O	Function
40	DVSS	—	Ground terminal (digital system)
41	$\overline{\text{XOE}}$	O	Output enable signal output to the D-RAM (IC307) "L" active
42	$\overline{\text{XCAS}}$	O	Column address strobe signal output to the D-RAM (IC307) "L" active
43	A09	O	Address signal output to the external D-RAM Not used (open)
44	$\overline{\text{XRAS}}$	O	Row address strobe signal output to the D-RAM (IC307) "L" active
45	$\overline{\text{XWE}}$	O	Write enable signal output to the D-RAM (IC307) "L" active
46	D1	I/O	Two-way data bus with the D-RAM (IC307)
47	D0	I/O	
48	D2	I/O	
49	D3	I/O	
50	MVCI	I	Digital in PLL oscillation input from the external VCO Not used (fixed at "L")
51	ASYO	O	Playback EFM full-swing output terminal
52	ASYI	I (A)	Playback EFM asymmetry comparator voltage input terminal
53	AVDD	—	Power supply terminal (+3.3V) (analog system)
54	BIAS	I (A)	Playback EFM asymmetry circuit constant current input terminal
55	RFI	I (A)	Playback EFM RF signal input from the CXA2523R (IC302)
56	AVSS	—	Ground terminal (analog system)
57	PDO	O (3)	Phase comparison output for clock playback analog PLL of the playback EFM Not used (open)
58	PCO	O (3)	Phase comparison output for master clock of the recording/playback EFM master PLL
59	FILI	I (A)	Filter input for master clock of the recording/playback master PLL
60	FILO	O (A)	Filter output for master clock of the recording/playback master PLL
61	CLTV	I (A)	Internal VCO control voltage input of the recording/playback master PLL
62	PEAK	I (A)	Light amount signal (RF/ABCD) peak hold input from the CXA2523R (IC302)
63	BOTM	I (A)	Light amount signal (RF/ABCD) bottom hold input from the CXA2523R (IC302)
64	ABCD	I (A)	Light amount signal (ABCD) input from the CXA2523R (IC302)
65	FE	I (A)	Focus error signal input from the CXA2523R (IC302)
66	AUX1	I (A)	Auxiliary signal (I_3 signal/temperature signal) input terminal Not used (fixed at "H")
67	VC	I (A)	Middle point voltage (+1.65V) input from the CXA2523R (IC302)
68	ADIO	O (A)	Monitor output of the A/D converter input signal Not used (open)
69	AVDD	—	Power supply terminal (+3.3V) (analog system)
70	ADRT	I (A)	A/D converter operational range upper limit voltage input terminal (fixed at "H" in this set)
71	ADRB	I (A)	A/D converter operational range lower limit voltage input terminal (fixed at "L" in this set)
72	AVSS	—	Ground terminal (analog system)
73	SE	I (A)	Sled error signal input from the CXA2523R (IC302)
74	TE	I (A)	Tracking error signal input from the CXA2523R (IC302)
75	AUX2	I (A)	Auxiliary signal input terminal Light amount signal input from the CXA2523R (IC302)
76	DCHG	I (A)	Connected to the +3.3V power supply
77	APC	I (A)	Error signal input for the laser automatic power control Not used (fixed at "L")
78	ADFG	I	ADIP duplex FM signal (22.05 kHz ± 1 kHz) input from the CXA2523R (IC302)
79	F0CNT	O	Filter f0 control signal output terminal Not used (open)
80	XLRF	O	Serial data latch pulse signal output terminal Not used (open)
81	CKRF	O	Serial data transfer clock signal output terminal Not used (open)
82	DTRF	O	Writing serial data output terminal Not used (open)
83	APCREF	O	Control signal output to the reference voltage generator circuit for the laser automatic power control
84	LDDR	O	PWM signal output for the laser automatic power control Not used (open)
85	TRDR	O	Tracking servo drive PWM signal (–) output to the BH6511FS (IC303)
86	TFDR	O	Tracking servo drive PWM signal (+) output to the BH6511FS (IC303)

Pin No.	Pin Name	I/O	Function
87	DVDD	—	Power supply terminal (+3.3V) (digital system)
88	FFDR	O	Focus servo drive PWM signal (+) output to the BH6511FS (IC303)
89	FRDR	O	Focus servo drive PWM signal (–) output to the BH6511FS (IC303)
90	FS4	O	Clock signal (176.4 kHz) output terminal (X'tal system) Not used (open)
91	SRDR	O	Sled servo drive PWM signal (–) output to the BH6511FS (IC303)
92	SFDR	O	Sled servo drive PWM signal (+) output to the BH6511FS (IC303)
93	SPRD	O	Spindle servo drive PWM signal (–) output to the BH6511FS (IC303)
94	SPFD	O	Spindle servo drive PWM signal (+) output to the BH6511FS (IC303)
95	FGIN	I	Not used (fixed at "L")
96	TEST1	I	Input terminal for the test (fixed at "L")
97	TEST2	I	
98	TEST3	I	
99	DVSS	—	Ground terminal (digital system)
100	EFMO	O	EFM signal output terminal when recording mode Not used (open)

* I (A) for analog input, O (3) for 3-state output, and O (A) for analog output in the column I/O.

• **SERVO BOARD IC302 CXA2523R (RF AMP, FOCUS/TRACKING ERROR AMP)**

Pin No.	Pin Name	I/O	Function
1	I	I	I-V converted RF signal I input from the optical pick-up block detector
2	J	I	I-V converted RF signal J input from the optical pick-up block detector
3	VC	O	Middle point voltage (+1.65V) generation output terminal
4 to 9	A to F	I	Signal input from the optical pick-up detector
10	PD	I	Light amount monitor input from the optical pick-up block laser diode
11	APC	O	Laser amplifier output terminal to the automatic power control circuit
12	APCREF	I	Reference voltage input terminal for setting laser power
13	GND	—	Ground terminal
14	TEMPI	I	Connected to the temperature sensor Not used (open)
15	TEMPR	O	Output terminal for a temperature sensor reference voltage Not used (open)
16	SWDT	I	Writing serial data input from the MD mechanism controller (IC501)
17	SCLK	I	Serial data transfer clock signal input from the MD mechanism controller (IC501)
18	XLAT	I	Serial data latch pulse signal input from the MD mechanism controller (IC501)
19	$\overline{\text{XSTBY}}$	I	Standby signal input terminal "L": standby (fixed at "H" in this set)
20	F0CNT	I	Center frequency control voltage input terminal of internal circuit (BPF22, BPF3T, EQ) input terminal
21	VREF	O	Reference voltage output terminal Not used (open)
22	EQADJ	I	Center frequency setting terminal for the internal circuit (EQ)
23	3TADJ	I	Center frequency setting terminal for the internal circuit (BPF3T)
24	VCC	—	Power supply terminal (+3.3V)
25	WBLADJ	I	Center frequency setting terminal for the internal circuit (BPF22)
26	TE	O	Tracking error signal output to the CXD2652AR (IC301)
27	CSLED	I	Connected to the external capacitor for low-pass filter of the sled error signal
28	SE	O	Sled error signal output to the CXD2652AR (IC301)
29	ADFM	O	FM signal output of the ADIP
30	ADIN	I	Receives a ADIP FM signal in AC coupling
31	ADAGC	I	Connected to the external capacitor for ADIP AGC
32	ADFG	O	ADIP duplex signal (22.05 kHz ± 1 kHz) output to the CXD2652AR (IC301)
33	AUX	O	Auxiliary signal (I_3 signal/temperature signal) output terminal Not used (open)
34	FE	O	Focus error signal output to the CXD2652AR (IC301)
35	ABCD	O	Light amount signal (ABCD) output to the CXD2652AR (IC301)
36	BOTM	O	Light amount signal (RF/ABCD) bottom hold output to the CXD2652AR (IC301)
37	PEAK	O	Light amount signal (RF/ABCD) peak hold output to the CXD2652AR (IC301)
38	RF	O	Playback EFM RF signal output to the CXD2652AR (IC301)
39	RFAGC	I	Connected to the external capacitor for RF auto gain control circuit
40	AGCI	I	Receives a RF signal in AC coupling
41	COMPO	O	User comparator output terminal Not used (open)
42	COMPP	I	User comparator input terminal Not used (fixed at "L")
43	ADDC	I	Connected to the external capacitor for cutting the low band of the ADIP amplifier
44	OPO	O	User operational amplifier output terminal Not used (open)
45	OPN	I	User operational amplifier inversion input terminal Not used (fixed at "L")
46	RFO	O	RF signal output terminal
47	MORFI	I	Receives a MO RF signal in AC coupling
48	MORFO	O	MO RF signal output terminal

• **SERVO BOARD IC501 CXP84340-089Q (MD MECHANISM CONTROLLER)**

Pin No.	Pin Name	I/O	Function
1 to 5	TIN3 to TIN7	I/O	Input of the 4×8 matrix test keys (“L” is always output, except in test mode) Not used (open)
6	LOAD	O	Loading motor control signal output to the motor driver (IC305) *1
7	EJECT	O	Loading motor control signal output to the motor driver (IC305) *1
8, 9	NCO	O	Not used (open)
10	MDMON	O	Power supply on/off control signal output of the MD mechanism deck section main power supply and loading motor drive (IC305) power supply “H”: power on
11	$\overline{\text{E-SW}}$	I	Inputs the disc loading completion detect switch (S902) detection signal “L”: When completed of the disc loading operation
12	AG-OK	O	Output of aging status in test mode “H”: aging completed, “L”: under aging Not used (open)
13	ADJ-OK	O	Output of status when aging completed in test mode “H”: aging OK, “L”: aging NG Not used (open)
14 to 17	NCO	O	Not used (open)
18	DFCTSEL	I	Select whether defect function is used for the CXD2652AR (IC301) “H”: not used this function, “L”: used this function (fixed at “H” in this set)
19	DPLLSEL	I	Select whether digital pll function is used for the CXD2652AR (IC301) “H”: not used this function, “L”: used this function (fixed at “H” in this set)
20	EMPHSEL	I	Select whether emphasis signal output from pin or unilink data “H”: output from pin only, “L”: outputs from both pin and unilink data Not used (open)
21	LOCK	O	Mini-disc lock detection signal output to the master controller (IC700) “H”: lock
22	NCO	O	Not used (open)
23	2M/$\overline{\text{4M}}$	I	Select whether D-RAM capacitance 2M bit or 4M bit “H”: 2M bit (internal D-RAM of CXD2652AR), “L”: 4M bit (external D-RAM) (fixed at “L” in this set)
24, 25	NCO	O	Not used (open)
26	MNT0	I	Focus OK signal input from the CXD2652AR (IC301) “H” is input when focus is on (“L”: NG)
27	MNT1	I	Track jump detection signal input from the CXD2652AR (IC301)
28	MNT2	I	Monitor 2 signal input from the CXD2652AR (IC301)
29	MNT3	I	Monitor 3 signal input from the CXD2652AR (IC301)
30	$\overline{\text{RESET}}$	I	System reset signal input from the master controller (IC700), reset signal generator (IC801) and reset switch (S900) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
31	EXTAL	O	Main system clock output terminal (10 MHz)
32	XTAL	I	Main system clock input terminal (10 MHz)
33	VSS	—	Ground terminal
34	TX	O	Sub system clock output terminal (32.768 kHz) Not used (open)
35	TEX	I	Sub system clock input terminal (32.768 kHz) Not used (fixed at “L”)
36	AVSS	—	Ground terminal (for A/D converter)
37	AVREF	I	Reference voltage input terminal (+5V) (for A/D converter)
38	INIT	I	Initial reset signal input terminal (A/D input) (fixed at “H”)
39	TEMP	I	Temperature sensor (TH501) input terminal (A/D input)
40	ACNT	I	Select the number of load/eject aging times (A/D input) 0H – 54H (30 times), 55H – OA9H (20 times), OAAH – OFFH (10 times)
41	DO-SEL	I	Select the digital output bits (A/D input)
42	EE-CS	O	Chip select signal output to the external EEPROM device Not used (open)
43	EE-CKO	O	Serial data transfer clock signal output to the external EEPROM device Not used (open)
44	EE-SIO	I/O	Two way data bus with the external EEPROM device Not used (open)
45	MD-SO	O	Writing serial data signal output to the CXD2652AR (IC301) and CXA2523R (IC302)
46	LINKOFF	O	Unilink on/off control signal output for the SONY bus “H”: link off, “L”: link on

Pin No.	Pin Name	I/O	Function
47	UNIREQ	O	Data request signal output terminal (for SONY bus) "H": request on Not used (open)
48	UNCKI	I	Serial data transfer clock signal input from the master controller (IC700) (for SONY bus)
49	UNISI	I	Serial data input from the SONY bus interface (IC600)
50	UNISO	O	Serial data output to the SONY bus interface (IC600)
51	MD-CKO	O	Serial data transfer clock signal output to the CXD2652AR (IC301) and CXA2523R (IC302)
52	MD-SI	I	Reading serial data signal input from the CXD2652AR (IC301)
53	NCO	O	Not used (open)
54	SENS	I	Internal status (SENSE) input from the CXD2652AR (IC301)
55	CC-XINT	I	Interrupt status input from the CXD2652AR (IC301)
56	$\overline{\text{LIMIT-IN}}$	I	Detection input from the sled limit-in detect switch (S903) The optical pick-up is inner position when "L"
57	EJT-KEY	I	Eject request signal input terminal "L": eject on Not used (fixed at "H")
58	ERROR-PWM	O	PWM error monitor output terminal (C1and ATER is output when test mode) Not used (open)
59	$\overline{\text{MD-RST}}$	O	Reset signal output to the CXD2652AR (IC301) and BH6511FS (IC303) "L": reset
60	BU-IN	I	Battery detect signal input from the SONY bus interface (IC600) and battery check circuit "H": battery on
61	$\overline{\text{BUS-ON}}$	I	SONY bus on/off control signal input from the master controller (IC700) "L": bus on
62	SQSY	I	Subcode Q sync (SCOR) input from the CXD2652AR (IC301) "L" is input every 13.3 msec Almost all, "H" is input
63	$\overline{\text{C-SW}}$	I	Inputs the disc loading start or disc eject completion detect switch (S901) detection signal "L": When start or eject completed of the disc loading operation
64	MD-LAT	O	Serial data latch pulse signal output to the CXD2652AR (IC301) and CXA2523R (IC302)
65	MD-ON	O	Power supply on/off control signal output of the MD mechanism deck section main power supply "H": power on
66	DEEMP	O	Emphasis on/off control signal output terminal "H": emphasis on Not used
67	A-MUTE	O	Audio muting on/off control signal output terminal Not used
68	NCO	O	Not used (open)
69	TSTCKO	O	Output of clock signal for the test mode display Not used (open)
70	TSTSO	O	Output of data for the test mode display Not used (open)
71	$\overline{\text{TSTMOD}}$	I	Setting terminal for the test mode "L": test mode, "H": normal mode
72	VCC	—	Power supply terminal (+5V)
73	NC	—	Not used (fixed at "H")
74 to 77	TOUT0 to TOUT3	O	Output of the 4×8 matrix test keys Not used (open)
78 to 80	TIN0 to TIN2	I/O	Input of the 4×8 matrix test keys ("L" is always output, except in test mode) Not used (open)

*1 Loading motor (M903) control

Operation / Terminal	IN	OUT	BRAKE	STOP
LOAD (pin ⑥)	"H"	"L"	"H"	"L"
EJECT (pin ⑦)	"L"	"H"	"H"	"L"

• **MAIN BOARD IC700 (MASTER CONTROLLER)**

	MDX-C7900	MDX-C7900R
Type A	**MB90574PFV-G-114-BND**	**MB90574PFV-G-113-BND**
Type B	**MB90574PFV-G-114**	**MB90574PFV-G-113**

Pin No.	Pin Name	I/O	Function
1 to 7	NC	O	Not used (open)
8	VCC	—	Power supply terminal (+5V)
9	PLL SI	I	PLL serial data input from the FM/AM PLL (IC100)
10	PLL SO	O	PLL serial data output to the FM/AM PLL (IC100)
11	PLL CKO	O	PLL serial data transfer clock signal output to the FM/AM PLL (IC100)
12	NOSE SW	I	Detects the removal of the attaching and removing type front panel block "L": attaching
13	LCD SO	O	Serial data output to the liquid crystal display driver (IC801)
14	LCD CKO	O	Serial data transfer clock signal output to the liquid crystal display driver (IC801)
15	BEEP	O	Beep sound drive signal output terminal
16	DBMOD2	O	D-BASS mode control signal output to the SM5852ES (IC201)
17 to 19	NC	O	Not used (open)
20	UNI SI	I	Serial data input from the SONY bus interface (IC600)
21	UNI SO	O	Serial data output to the SONY bus interface (IC600)
22	UNI CKO	O	Serial data transfer clock signal output to the MD mechanism controller (IC501) and SONY bus interface (IC600)
23 to 25	NC	O	Not used (open)
26	VOL SO	O	Serial data output to the electrical volume (IC300)
27	VOL CKO	O	Serial data transfer clock signal output to the electrical volume (IC300)
28	DSTSEL0	I	Destination setting terminal (US, Canadian models: fixed at "H", E model and MDX-C7900R: fixed at "L")
29	$\overline{\text{SYSRET}}$	O	System reset signal output to the MD mechanism controller (IC501) and SONY bus interface (IC600) "L": reset
30	DSTSEL1	I	Destination setting terminal (US, Canadian models and MDX-C7900R: fixed at "L", E model: fixed at "H")
31	DMOD1	O	D-BASS mode control signal output to the SM5852ES (IC201)
32	$\overline{\text{TESTIN}}$	I	Setting terminal for the test mode "L": test mode (normally fixed at "H")
33	VSS	—	Ground terminal
34	C	—	Connected to capacitor (for coupling)
35	NC	O	Not used (open)
36	$\overline{\text{BUS ON}}$	O	Bus on/off control signal output to the MD mechanism controller (IC501) and SONY bus interface (IC600) "L": bus on
37	$\overline{\text{AD ON}}$	O	Power supply on/off control signal output for the A/D converter "L": power on
38	DVCC	—	Power supply terminal (+5V) (for D/A converter)
39	DVSS	—	Ground terminal (for D/A converter)
40	LCDANG	O	Output signal for the LCD view angle adjustment "H": When front panel is full open
41	VOL CE	O	Chip enable signal output to the electrical volume (IC300)
42	AVCC	—	Power supply terminal (+5V) (for A/D converter)
43	AVRH	I	Reference voltage (+5V) input terminal (for A/D converter)
44	AVRL	I	Reference voltage (0V) input terminal (for A/D converter)
45	AVSS	—	Ground terminal (for A/D converter)
46	KEY IN0	I	Key input terminal (A/D input) OFF, SOURCE, SEEK/AMS ▶▶I ▶▶ + I◀◀ ◀◀ – , SOUND, SHIFT, 1, 2, 3, 4 keys input (LSW801 to LSW804 and LSW806 to LSW811)

Pin No.	Pin Name	I/O	Function
47	KEY IN1	I	Key input terminal (A/D input) MDX-C7900: ⏏, LIST, DSPL, 10, 9, 8, 7, 6, 5 keys input (LSW812 and LSW814 to LSW821) MDX-C7900R: ⏏, DSPL, LIST PTY, AF/TA, 10, 9, 8, 7, 6, 5 keys input (LSW812 to LSW821)
48	KEY IN2	I	Key input terminal (A/D input) Not used (fixed at "L")
49	RC IN0	I	Rotary remote commander shift key A/D input terminal
50	D-BASS IN	I	D-BASS switch (LSW805) input terminal (A/D input)
51	NC	I	Not used (fixed at "L")
52	MPDH (MTP)	I	Multi path input from the RDS decoder (IC102) Used for the MDX-C7900R only
53	S METER (VSM)	I	FM and AM (MW/LW) signal meter voltage detection input from the FM/AM tuner unit (TU1)
54	VCC	—	Power supply terminal (+5V)
55	AMP ATT	O	Muting control signal output to the power amplifier (IC500) "H": muting on
56	AMP ON	O	Standby control signal output to the power amplifier (IC500) "L": standby, "H": amp on
57	ILL IN	I	Illuminate line detect signal input for the auto dimmer control Dimmer is present at input of "L"
58	LOCK IN	I	Mini-disc lock detection signal input from the MD mechanism controller (IC501) "H": lock
59	EMPH ON	O	Emphasis control signal output to the D/A converter (IC202) "H": emphasis on
60	AU ATT	O	Audio line muting on/off control signal output terminal "H": muting on
61	AF ATT	O	RDS AF playing attenuate signal output terminal Not used (open)
62	TU ATT	O	Tuner signal (FM and AM) muting on/off control signal output "H": muting on
63	VSS	—	Ground terminal
64	ACC IN	I	Accessory detect signal input terminal "L": accessory on
65	AF SEEK	O	RDS AF seek control signal output terminal Used for the MDX-C7900R only
66	NC	O	Not used (open)
67	DAVN	I	Data transmit completed detect signal input from the RDS decoder (IC102) Used for the MDX-C7900R only
68, 69	NC	O	Not used (open)
70	RDS SI	I	Serial data input from the RDS decoder (IC102) Used for the MDX-C7900R only
71	RDS CKI	I	Serial data transfer clock signal input from the RDS decoder (IC102) Used for the MDX-C7900R only
72	RC IN1	I	Rotary remote commander shift key A/D input terminal
73	X1A	O	Sub system clock output terminal (32 kHz)
74	X0A	I	Sub system clock input terminal (32 kHz)
75	NC	O	Not used (open)
76	BU IN	I	Battery detect signal input from the SONY bus interface (IC600) and battery check circuit "H": battery on
77, 78	NC	O	Not used (open)
79	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function and eject keys in the power off status On at input of "H"
80	$\overline{\text{TEL ATT}}$	I	Telephone muting signal input terminal At input of "L", the signal is attenuated by –20 dB
81	ST IN/MONO	I/O	Input of FM stereo detection signal from FM/AM tuner unit (TU1), and output of forced monaural control signal to FM/AM tuner unit (TU1) (Commonly used for stereo display input and forced monaural output) FM stereo detection at input of "L", forced monaural at output of "L"
82	$\overline{\text{SEEKOUT}}$	O	Seek control signal output to the FM/AM tuner unit (TU1) (AM mode: used for IF count output, SD request, AGC cut etc., FM mode: used for SEEK, BTM, AF playing SD speed up etc.)
83	SD IN	I	Station detector detect input from the FM/AM tuner unit (TU1) Stop level for SEEK, BTM, etc. is determined SD is present at input of "H"
84	NC (MONO)	I	Not used (open)

Pin No.	Pin Name	I/O	Function
85	PLL CE	O	PLL serial chip enable output to the FM/AM PLL (IC100)
86	HSTX	I	Hardware standby input terminal Not used (open)
87	MD2	I	Mode selection input terminal (fixed at "L")
88	MD1	I	Mode selection input terminal (fixed at "H")
89	MD0	I	Mode selection input terminal (fixed at "H")
90	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC801) and reset switch (S900) "L" is input for several 100 msec after power on, then it changes to "H"
91	VSS	—	Ground terminal
92	X0	I	Main system clock input terminal (3.68 MHz)
93	X1	O	Main system clock output terminal (3.68 MHz)
94	VCC	—	Power supply terminal (+5V)
95	PW SEL	I	Power select switch (S700) input terminal "L": on (operation mode), "H": off (halt mode)
96	POL MONO	I	Polar monaural detection signal input terminal Not used (open)
97 to 99	NC	O	Not used (open)
100	BAND (9K-10K)	I	Frequency select switch (S701) input terminal "H": MW 9k step/FM 50k step, "L": MW10k step/FM 200k step Used for the E model only
101	NC	O	Not used (open)
102	RAMBU	I	Internal RAM reset detection signal input from the RN5VD23AA (IC802) Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset
103	NC	O	Not used (open)
104	LCD CE	O	Chip enable output to the liquid crystal display driver (IC801)
105	FLASH W	I	Fixed at "H" in this set
106	REIN0	I	Rotary encoder (EN801) input for volume/bass/treble/balance/fader control
107	REIN1	I	Rotary encoder (EN801) input for volume/bass/treble/balance/fader control
108	LAMP ON (ILL ON)	O	Power supply on/off control signal output terminal at the illumination and liquid crystal display driver (IC801) "H": power on At power select switch (S700) on mode: "H" output at the accessory on At power select switch (S700) off mode: "H" output at the power on
109	PW ON	O	Main system power supply on/off control signal output to the BA3918 (IC800) "H": power on
110	FM ON	O	FM system power supply on/off control signal output to the BA3918 (IC800) "H": FM on
111	TUN ON	O	Tuner system power supply on/off control signal output to the BA3918 (IC800) "H": tuner on
112 to 118	NC	O	Not used (open)
119	VSS	—	Ground terminal
120	NC	O	Not used (open)

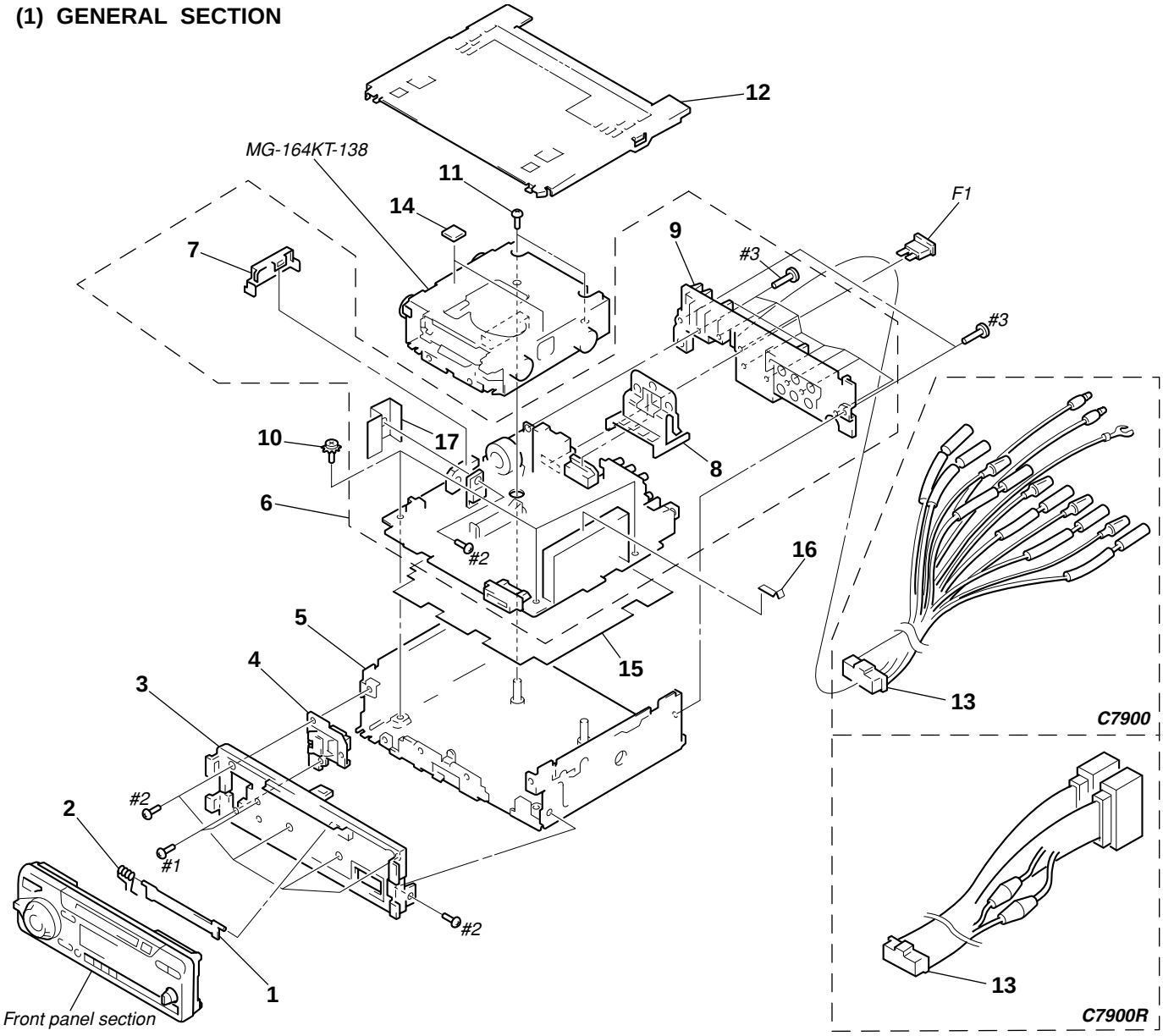
SECTION 6
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

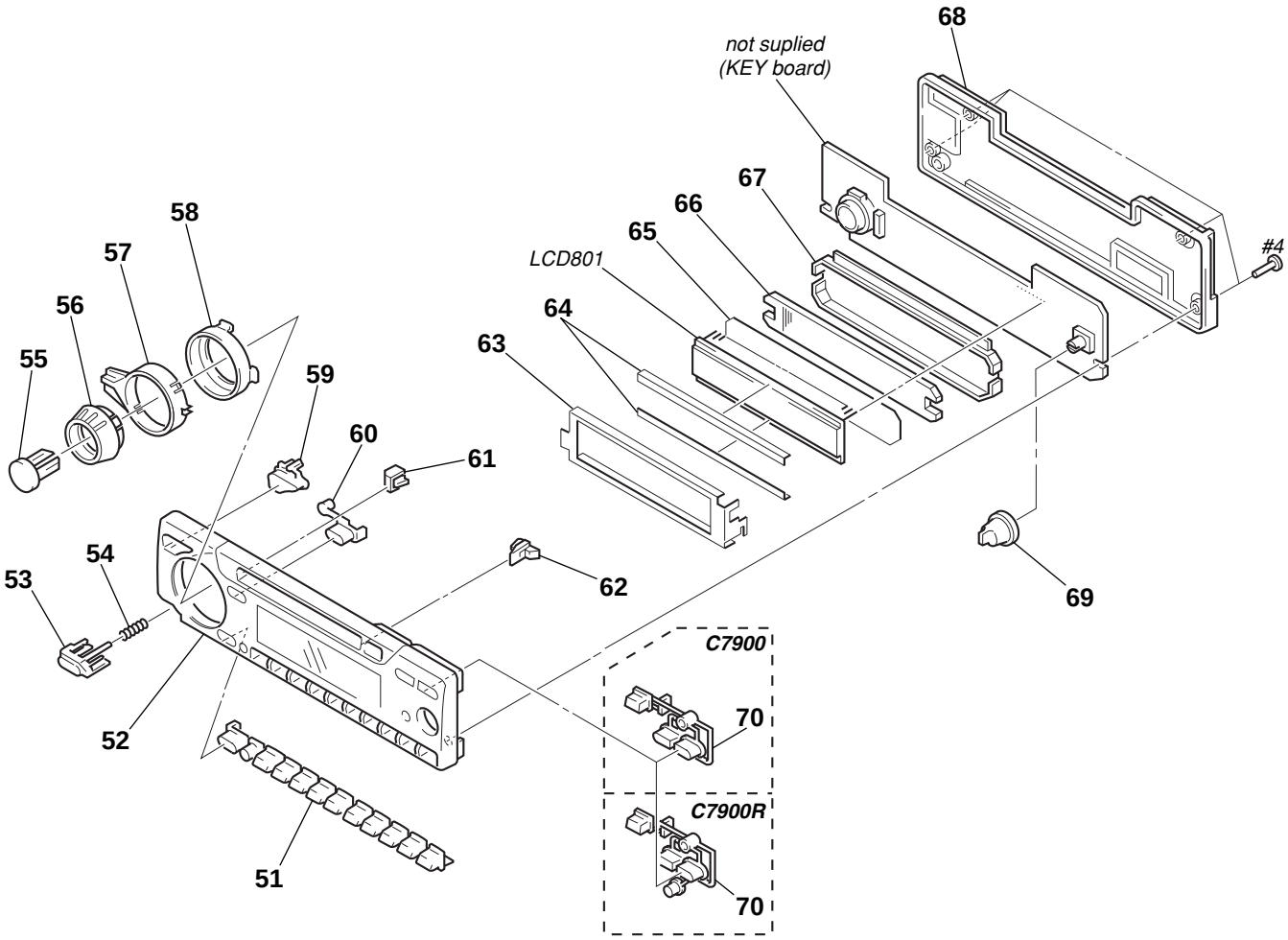
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

(1) GENERAL SECTION



Ref. No.	Part No.	Description	Remark
1	3-919-344-51	DOOR (MD) (C7900)	
1	3-919-344-61	DOOR (MD) (C7900R)	
2	3-919-343-01	SPRING (DOOR), TORSION	
3	3-023-606-01	PANEL, SUB	
4	X-3367-636-1	LOCK ASSY	
* 5	X-3373-358-1	CHASSIS ASSY	
* 6	A-3294-393-A	MAIN BOARD, COMPLETE (C7900R: AEP, UK)	
* 6	A-3294-394-A	MAIN BOARD, COMPLETE (C7900R: German)	
* 6	A-3294-410-A	MAIN BOARD, COMPLETE (C7900: US, Canadian)	
* 6	A-3294-412-A	MAIN BOARD, COMPLETE (C7900: E)	
* 7	3-022-317-01	BRACKET (AMP)	
* 8	3-011-078-01	BRACKET (POWER IC)	
* 9	3-023-604-01	HEAT SINK	
10	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
11	3-932-860-01	SCREW (2.6X4) (C TIGHT), +PTT	
* 12	X-3373-362-1	COVER ASSY	
13	1-776-207-71	CORD (WITH CONNECTOR) (POWER) (C7900)	
13	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (C7900R)	
14	3-011-999-01	CUSHION (MD)	
* 15	3-014-156-01	SHEET (INSULATING)	
* 16	3-355-209-01	PLATE (B), GROUND	
* 17	3-937-122-01	HEAT SINK	
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	

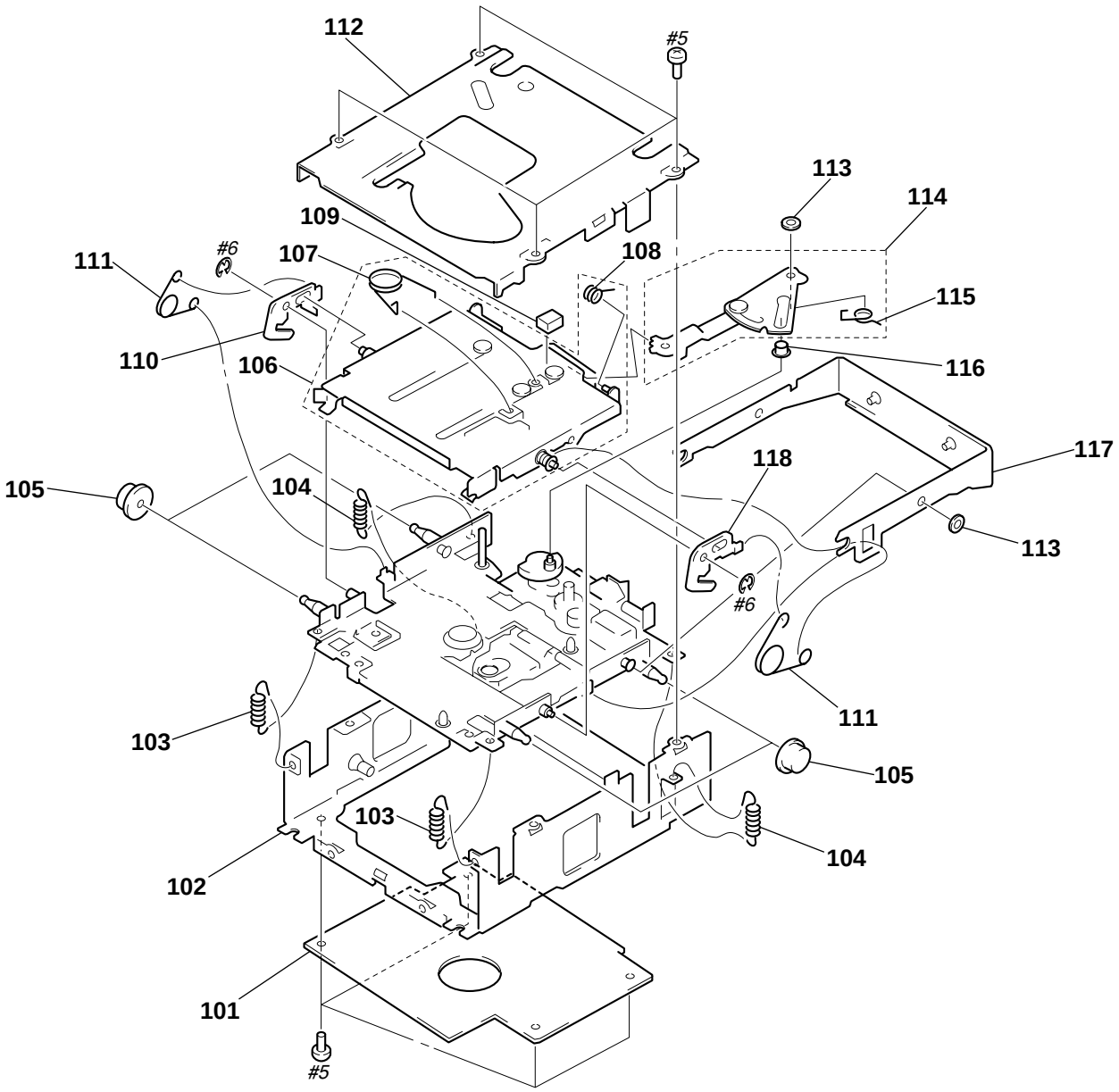
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-023-611-01	BUTTON (10KEY) (OFF. SHIFT. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10)	
52	X-3375-315-1	PANEL ASSY, FRONT (C7900)	
52	X-3375-409-1	PANEL ASSY, FRONT (C7900R)	
53	3-023-617-01	BUTTON (RELEASE)	
54	3-008-667-01	SPRING (RELEASE)	
55	3-023-626-01	BUTTON (SOURCE)	
56	3-023-612-01	KNOB (VOL)	
57	3-023-613-01	KNOB (AMS) (C7900)	
57	3-023-613-31	KNOB (AMS) (C7900R)	
58	3-023-615-01	RING, LIGHT GUIDE	
59	3-023-629-01	BUTTON (MODE)	
60	3-023-616-01	BUTTON (SOUND)	

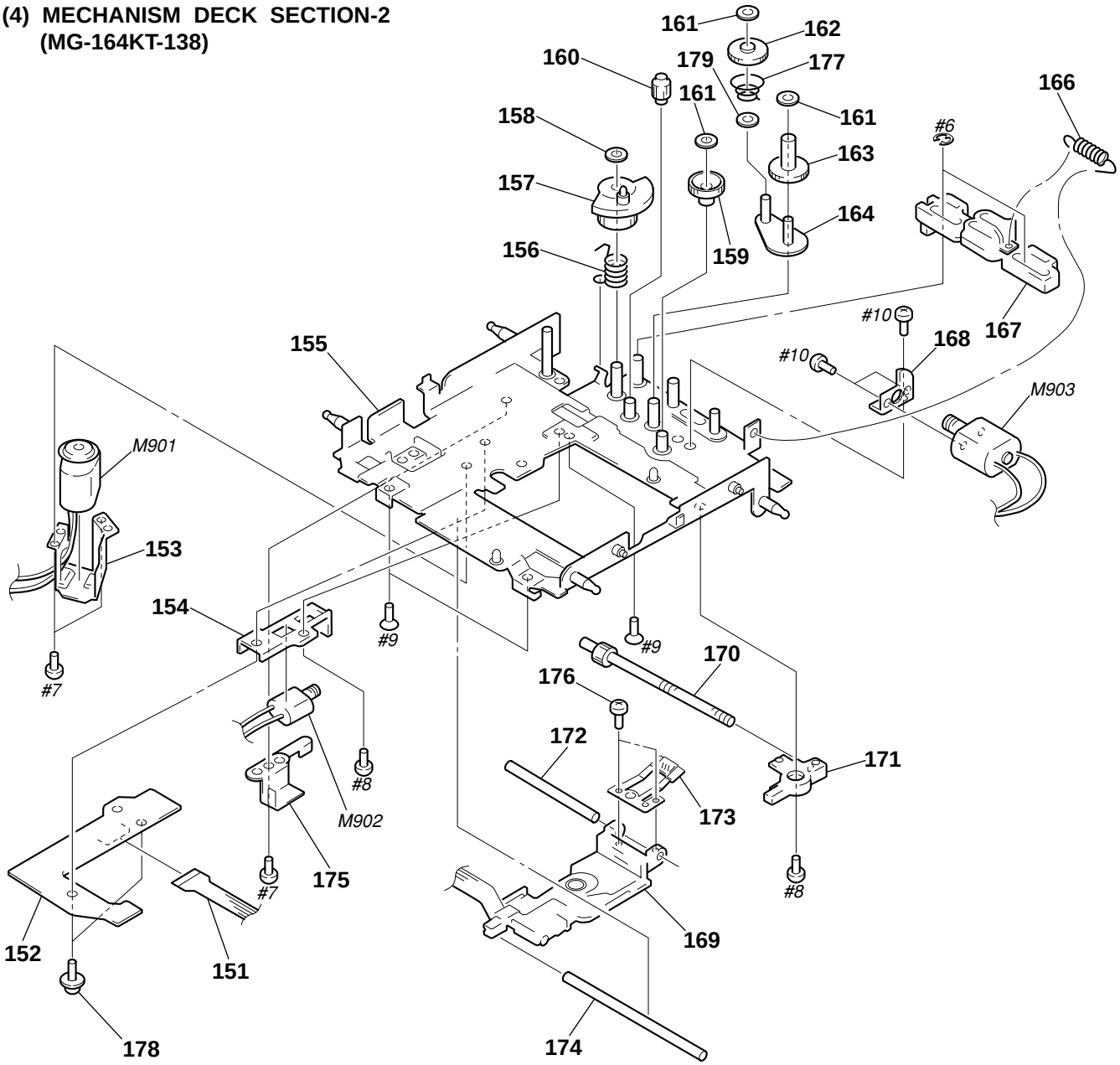
Ref. No.	Part No.	Description	Remark
61	3-023-618-01	PLATE (L), LIGHT GUIDE	
62	3-023-619-01	PLATE (R), LIGHT GUIDE	
* 63	3-023-610-01	PLATE (LCD), GROUND	
* 64	3-023-621-01	SHEET (LCD)	
* 65	3-023-624-01	ILLUMINATOR (LCD)	
* 66	3-023-609-01	PLATE (LCD), LIGHT GUIDE	
* 67	3-023-608-01	HOLDER (LCD)	
68	3-023-605-01	PANEL, BACK	
69	3-023-625-01	KNOB (D)	
70	3-023-622-01	BUTTON (EJ) (⏏. PTY. AF/TA. DSPL) (C7900R)	
70	3-023-627-01	BUTTON (EJ) (⏏. LIST. DSPL) (C7900)	
LCD801	1-803-111-11	DISPLAY PANEL, LIQUID CRYSTAL	

(3) MECHANISM DECK SECTION-1 (MG-164KT-138)



Ref. No.	Part No.	Description	Remark
* 101	A-3313-612-A	SERVO BOARD, COMPLE	
* 102	X-3369-440-1	CHASSIS ASSY, MD	
103	3-919-296-01	SPRING (FL), TENSION	
104	3-921-111-01	SPRING (FL2), TENSION	
105	3-919-273-01	DAMPER, OIL	
* 106	X-3369-444-1	HOLDER ASSY	
107	3-919-319-01	SPRING (HOLDER)	
108	3-919-320-01	SPRING (SUB HOLDER)	
* 109	3-919-436-01	CUSHION (EJ)	
* 110	3-919-280-01	LEVER (LOCK R)	
111	3-919-281-01	SPRING (CHKG)	
* 112	X-3369-441-1	COVER ASSY, MD	
113	3-342-940-01	WASHER (M)	
* 114	X-3369-445-1	LEVER (LE) ASSY	
115	3-919-274-01	SPRING (LE)	
116	3-925-034-01	ROLLER (GLE)	
* 117	X-3369-443-1	ARM ASSY, CHUCKING	
* 118	3-919-279-01	LEVER (LOCK L)	

(4) MECHANISM DECK SECTION-2 (MG-164KT-138)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
151	1-654-693-11	SENSOR FLEXIBLE BOARD	
152	A-3309-892-A	SENSOR BOARD, COMPLETE	
* 153	3-919-297-01	RETAINER (SP)	
* 154	3-919-284-01	BASE (SL)	
* 155	X-3369-442-1	CHASSIS (OP) ASSY	
156	3-919-339-01	SPRING (GLE)	
157	3-919-317-01	GEAR (LE)	
158	4-926-562-01	WASHER, STOPPER	
159	3-919-313-01	WHEEL, WORM	
160	3-919-316-01	GEAR (R)	
161	3-342-940-01	WASHER (M)	
162	3-919-315-01	GEAR (S)	
163	3-919-314-01	GEAR (F)	
164	X-3369-446-1	LEVER (S) ASSY	
166	3-919-282-01	SPRING (RACK), TENSION	
167	X-3369-447-1	RACK ASSY	
* 168	3-919-312-01	BRACKET (MOTOR)	
⚠169	8-583-037-02	OPTICAL PICK-UP KMS-241A/J2RP	
170	X-3373-213-1	SCREW ASSY, FEED	
* 171	3-919-294-01	BEARING (SL)	
* 172	3-919-293-01	SHAFT (SL)	
173	3-010-091-01	SPRING (SL FEED)	
* 174	3-920-537-01	SHAFT (SL2)	
* 175	3-919-283-01	BRACKET (SL)	
176	3-703-816-32	SCREW (M1.4X1.6), SPECIAL HEAD	
177	3-924-721-01	SPRING (B-T)	
178	2-626-617-01	SCREW (2X8)	
179	3-701-437-01	WASHER	
M901	A-3301-407-A	MOTOR ASSY, SP (SPINDLE)	
M902	A-3291-190-A	MOTOR ASSY, SL (SLED)	
M903	A-3291-191-A	MOTOR ASSY, LO (LOADING)	

KEY

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  Type A: See page 3 for Type A/B Discrimination.
  Type B: See page 3 for Type A/B Discrimination.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		KEY BOARD	
		**********	
*	3-023-608-01	HOLDER (LCD)	
*	3-023-609-01	PLATE (LCD), LIGHT GUIDE	
*	3-023-610-01	PLATE (LCD), GROUND	
*	3-023-621-01	SHEET (LCD)	
*	3-023-624-01	ILLUMINATOR (LCD)	
		< CAPACITOR >	
C802	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C803	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C804	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C805	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C806	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C811	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C812	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C813	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C814	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C815	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
		< CONNECTOR >	
CNP801	1-764-423-11	PIN, CONNECTOR 12P	
		< DIODE >	
D802	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D803	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D804	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D806	8-719-977-00	DIODE DTZ5.1C	
D807	8-719-977-00	DIODE DTZ5.1C	
D808	8-719-978-69	DIODE DTZ-TT11-16B	
D811	8-719-987-45	DIODE CL-155Y/PG-CD (ILLUMINATION)	
D812	8-719-987-45	DIODE CL-155Y/PG-CD (ILLUMINATION)	
D813	8-719-987-45	DIODE CL-155Y/PG-CD (MD WINDOW)	
D814	8-719-987-45	DIODE CL-155Y/PG-CD (ILLUMINATION)	
D815	8-719-987-45	DIODE CL-155Y/PG-CD (ILLUMINATION)	
D816	8-719-987-45	DIODE CL-155Y/PG-CD (ILLUMINATION)	
D817	8-719-987-45	DIODE CL-155Y/PG-CD (MD WINDOW)	
D819	8-719-977-00	DIODE DTZ5.1C	
		< ROTARY ENCODER >	
EN801	1-475-014-11	ENCODER, ROTARY (VOLUME/BASS/TREBLE/BALANCE/FADER CONTROL)	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC801	8-759-496-75	IC uPD16432BGC-018-9EU	
		< LIQUID CRYSTAL DISPLAY >	
LCD801	1-803-111-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< SWITCH >	
LSW801	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(OFF)	
LSW802	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(SOURCE)	
LSW803	1-771-290-11	SWITCH, SLIDE (SEEK/AMS)	
LSW804	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(MODE)	
LSW805	1-762-937-11	SWITCH, ROTARY (D-BASS)	
LSW806	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(SOUND)	
LSW807	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(SHIFT)	
LSW808	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(1)	
LSW809	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(2)	
LSW810	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(3)	
LSW811	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(4)	
LSW812	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(⏏)	
LSW813	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(DSPL)	(C7900R)
LSW814	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(LIST)	(C7900)
LSW814	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (PTY/LIST)	(C7900R)
LSW815	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(DSPL)	(C7900)
LSW815	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(AF/TA)	(C7900R)
LSW816	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(10)	
LSW817	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(9)	
LSW818	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(8)	
LSW819	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(7)	
LSW820	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(6)	
LSW821	1-762-620-11	SWITCH, KEY BOARD (WITH LED)(5)	
		< PILOT LAMP >	
PL801	1-517-630-31	LAMP, PILOT (LCD BACK LIGHT)	
PL802	1-517-630-31	LAMP, PILOT (LCD BACK LIGHT)	

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q801	8-729-424-08	TRANSISTOR	UN2111		
Q802	8-729-424-08	TRANSISTOR	UN2111		
Q803	8-729-904-78	TRANSISTOR	DTD113ZK		
Q804	8-729-904-66	TRANSISTOR	DTD113EK		
Q805	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
Q806	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q807	8-729-905-35	TRANSISTOR	2SC4081T106R		
		< RESISTOR >			
R801	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R802	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R803	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R804	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R805	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R806	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R807	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R808	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R809	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R810	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R812	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R813	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R814	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R815	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R816	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R817	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R818	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R819	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R820	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R823	1-216-028-00	METAL CHIP	130	5%	1/10W
R824	1-216-023-00	METAL CHIP	82	5%	1/10W
R827	1-216-028-00	METAL CHIP	130	5%	1/10W
R828	1-216-023-00	METAL CHIP	82	5%	1/10W
R829	1-216-028-00	METAL CHIP	130	5%	1/10W
R830	1-216-023-00	METAL CHIP	82	5%	1/10W
R831	1-216-028-00	METAL CHIP	130	5%	1/10W
R832	1-216-023-00	METAL CHIP	82	5%	1/10W
R833	1-216-028-00	METAL CHIP	130	5%	1/10W (C7900R)
R833	1-216-036-00	METAL CHIP	300	5%	1/10W (C7900)
R834	1-216-023-00	METAL CHIP	82	5%	1/10W (C7900R)
R834	1-216-034-00	METAL CHIP	240	5%	1/10W (C7900)
R835	1-216-048-00	RES, CHIP	910	5%	1/10W
R836	1-216-047-00	METAL CHIP	820	5%	1/10W
R838	1-216-028-00	METAL CHIP	130	5%	1/10W
R839	1-216-023-00	METAL CHIP	82	5%	1/10W
R840	1-216-041-00	METAL CHIP	470	5%	1/10W
R841	1-216-025-00	RES, CHIP	100	5%	1/10W
R842	1-216-048-00	RES, CHIP	910	5%	1/10W
R843	1-216-047-00	METAL CHIP	820	5%	1/10W
R845	1-216-699-11	RES, CHIP	100K	0.5%	1/10W
R846	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R847	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R849	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R850	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R852	1-216-081-00	METAL CHIP	22K	5%	1/10W
R853	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R854	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R856	1-216-049-00	METAL CHIP	470	5%	1/10W
R857	1-216-295-00	SHORT	0 (C7900)		
R858	1-216-295-00	SHORT	0 (C7900)		
R861	1-216-041-00	METAL CHIP	470	5%	1/10W
R862	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R863	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R865	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R866	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R867	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
		< CONPOSITION CIRCUIT BLOCK >			
RB802	1-233-810-21	RES, NETWORK 100K (3216)			
RB803	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
**********					
*	A-3294-393-A	MAIN BOARD, COMPLETE (C7900R: AEP, UK)			
*	A-3294-394-A	MAIN BOARD, COMPLETE (C7900R: German)			
*	A-3294-410-A	MAIN BOARD, COMPLETE (C7900: US, Canadian)			
*	A-3294-412-A	MAIN BOARD, COMPLETE (C7900: E)			
		**********			
*	3-011-078-01	BRACKET (POWER IC)			
*	3-022-317-01	BRACKET (AMP)			
*	3-023-604-01	HEAT SINK			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< BUZZER >			
BZ1	1-504-920-11	BUZZER			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C7900: US, Canadian)
C3	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V (C7900: E/C7900R)
C4	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V (C7900: US, Canadian)
C4	1-164-232-11	CERAMIC CHIP	0.01uF		50V (C7900: E/C7900R)
C5	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V (C7900: E/C7900R)
C5	1-163-078-11	CERAMIC CHIP	0.033uF	10%	25V (C7900: US, Canadian)
C6	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V (C7900: E/C7900R)
C6	1-163-078-11	CERAMIC CHIP	0.033uF	10%	25V (C7900: US, Canadian)
C7	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C8	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C10	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C11	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (C7900R)
C12	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V (C7900)

MAIN

Ref. No.	Part No.	Description			Remark
C12	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (C7900R)
C13	1-164-232-11	CERAMIC CHIP	0.01uF		50V (C7900R)
C14	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V (C7900R)
C15	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C16	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V (C7900)
C16	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V (C7900R)
C17	1-126-785-11	ELECT	47uF	20%	10V
C18	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C19	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C7900R)
C20	1-126-514-11	ELECT	22uF	20%	16V (C7900R)
C21	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C22	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C23	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C7900R)
C24	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C25	1-126-785-11	ELECT	47uF	20%	10V
C26	1-126-382-11	ELECT	100uF	20%	16V
C27	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C28	1-126-382-11	ELECT	100uF	20%	16V
C29	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C30	1-126-382-11	ELECT	100uF	20%	16V
C31	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C32	1-126-382-11	ELECT	100uF	20%	16V
C33	1-128-241-11	ELECT	220uF	20%	10V
C34	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C35	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C37	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C40	1-104-955-11	ELECT	100uF	20%	10V
C50	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C7900R)
C51	1-163-133-00	CERAMIC CHIP	470PF	5%	50V (C7900R)
C52	1-163-104-00	CERAMIC CHIP	30PF	5%	50V (C7900R)
C53	1-163-104-00	CERAMIC CHIP	30PF	5%	50V (C7900R)
C54	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V (C7900R)
C55	1-163-125-00	CERAMIC CHIP	220PF	5%	50V (C7900R)
C56	1-163-125-00	CERAMIC CHIP	220PF	5%	50V (C7900R)
C57	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (C7900R)
C58	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (C7900R)
C59	1-164-505-11	CERAMIC CHIP	2.2uF		16V (C7900R)
C60	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (C7900R)
C61	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C7900R)
C62	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C7900R)
C63	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C7900R)
C100	1-115-866-11	ELECT	4.7uF	20%	35V
C101	1-115-866-11	ELECT	4.7uF	20%	35V
C103	1-115-866-11	ELECT	4.7uF	20%	35V
C106	1-104-946-11	ELECT	10uF	20%	35V
C107	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C200	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C201	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C202	1-104-946-11	ELECT	10uF	20%	35V
C203	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C204	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C205	1-126-794-11	ELECT	4.7uF	20%	25V
C206	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C207	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C208	1-104-946-11	ELECT	10uF	20%	35V
C209	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C210	1-126-514-11	ELECT	22uF	20%	16V
C211	1-126-514-11	ELECT	22uF	20%	16V
C212	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C213	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C214	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C215	1-104-946-11	ELECT	10uF	20%	35V
C216	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C217	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C218	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C219	1-163-259-00	CERAMIC CHIP	220PF	5%	50V
C220	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C221	1-104-946-11	ELECT	10uF	20%	35V
C222	1-126-794-11	ELECT	4.7uF	20%	25V
C223	1-126-794-11	ELECT	4.7uF	20%	25V
C224	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C225	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C226	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C227	1-163-259-00	CERAMIC CHIP	220PF	5%	50V
C228	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C229	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C250	1-126-767-11	ELECT	1000uF	20%	16V
C251	1-124-635-00	ELECT	220uF	20%	6.3V
C252	1-163-259-00	CERAMIC CHIP	220PF	5%	50V
C253	1-126-382-11	ELECT	100uF	20%	16V
C254	1-126-514-11	ELECT	22uF	20%	16V
C255	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C256	1-126-796-11	ELECT	22uF	20%	25V
C257	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C300	1-115-872-11	ELECT	2.2uF	20%	50V
C301	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C303	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C304	1-115-871-11	ELECT	1uF	20%	50V
C305	1-115-871-11	ELECT	1uF	20%	50V
C306	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C307	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C308	1-128-428-11	ELECT	10uF	20%	35V
C309	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C310	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C311	1-128-428-11	ELECT	10uF	20%	35V
C312	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V

Ref. No.	Part No.	Description			Remark
C313	1-126-382-11	ELECT	100uF	20%	6.3V
C314	1-115-866-11	ELECT	4.7uF	20%	35V
C315	1-115-866-11	ELECT	4.7uF	20%	35V
C316	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C317	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C318	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C319	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C320	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C321	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C322	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C323	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C324	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C325	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C400	1-115-872-11	ELECT	2.2uF	20%	50V
C401	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C402	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C403	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C404	1-104-955-11	ELECT	100uF	20%	10V
C405	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C406	1-115-871-11	ELECT	1uF	20%	50V
C407	1-115-871-11	ELECT	1uF	20%	50V
C408	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C409	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C410	1-126-791-11	ELECT	10uF	20%	16V
C411	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C412	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C413	1-126-791-11	ELECT	10uF	20%	16V
C414	1-115-866-11	ELECT	4.7uF	20%	35V
C415	1-115-866-11	ELECT	4.7uF	20%	35V
C416	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C417	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C418	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C419	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C420	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C424	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C425	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C501	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C502	1-115-334-11	FILM	0.47uF	5%	50V
C503	1-107-888-11	ELECT	47uF	20%	25V
C504	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C506	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C507	1-126-016-11	ELECT	4700uF	20%	16V
C508	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C510	1-126-786-11	ELECT	47uF	20%	16V
C601	1-115-866-11	ELECT	4.7uF	20%	35V
C700	1-164-346-11	CERAMIC CHIP	1uF		16V
C701	1-115-871-11	ELECT	1uF	20%	50V
C702	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C703	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C704	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C705	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C706	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C707	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C708	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C709	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C800	1-128-428-11	ELECT	10uF	20%	35V

Ref. No.	Part No.	Description			Remark
C801	1-128-428-11	ELECT	10uF	20%	35V
C802	1-128-428-11	ELECT	10uF	20%	35V
C803	1-128-428-11	ELECT	10uF	20%	35V
C804	1-128-428-11	ELECT	10uF	20%	35V
C805	1-128-428-11	ELECT	10uF	20%	35V
C806	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C807	1-164-346-11	CERAMIC CHIP	1uF		16V
C900	1-115-866-11	ELECT	4.7uF	20%	35V
C901	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C902	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C903	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C904	1-128-241-11	ELECT	220uF	20%	10V
C905	1-125-710-11	DOUBLE LAYER	0.1F		5.5V
C914	1-163-038-00	CERAMIC CHIP	0.1uF		25V (Type A)
C916	1-163-038-00	CERAMIC CHIP	0.1uF		25V (Type A)
C917	1-124-635-00	ELECT	220uF	20%	6.3V (Type A)
C918	1-126-514-11	ELECT	22uF	20%	16V (Type A)
C920	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C990	1-164-346-11	CERAMIC CHIP	1uF		16V
C991	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C992	1-113-342-11	CERAMIC CHIP	0.1uF		50V
C993	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C994	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C995	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C999	1-163-133-00	CERAMIC CHIP	470PF	5%	50V

< CONNECTOR >

CN200	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P
CN900	1-764-422-11	PLUG, CONNECTOR 12P
CNJ600	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)
CNP300	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/LINE OUT)
CNP500	1-774-701-11	PIN, CONNECTOR 16P

< CONPOSITION CIRCUIT BLOCK >

CP1	1-519-504-11	GAP, DISCHARGE

< DIODE >

D1	8-719-977-03	DIODE DTZ5.6B
D3	8-719-981-59	DIODE FC805
D4	8-719-423-10	DIODE MA8100-M-TX
D5	8-719-421-24	DIODE MA8039-H
D200	8-719-313-73	DIODE SFPB-52
D201	8-719-422-31	DIODE MA8047-M
D202	8-719-423-32	DIODE MA8120-M
D300	8-719-914-42	DIODE DA204K
D301	8-719-914-42	DIODE DA204K
D302	8-719-914-42	DIODE DA204K
D303	8-719-421-27	DIODE MA728
D500	8-719-988-62	DIODE 1SS355
D501	8-719-017-62	DIODE MA8068-L-TX
D502	8-719-052-59	DIODE 1N5404TU-15
D503	8-719-053-18	DIODE 1SR154-400TE-25
D504	8-719-053-18	DIODE 1SR154-400TE-25
D505	8-719-053-18	DIODE 1SR154-400TE-25
D506	8-719-053-18	DIODE 1SR154-400TE-25

MAIN

Ref. No.	Part No.	Description	Remark
D507	8-719-053-18	DIODE 1SR154-400TE-25	
D508	8-719-053-18	DIODE 1SR154-400TE-25	
D509	8-719-053-18	DIODE 1SR154-400TE-25	
D510	8-719-053-18	DIODE 1SR154-400TE-25	
D600	8-719-057-80	DIODE MA8160-M-TX	
D601	8-719-057-80	DIODE MA8160-M-TX	
D602	8-719-017-62	DIODE MA8068-L-TX	
D603	8-719-022-90	DIODE MA8160M	
D604	8-719-017-62	DIODE MA8068-L-TX	
D700	1-216-049-11	RES, CHIP 1K 5%	1/10W
D701	8-719-914-43	DIODE DAN202K	
D702	8-719-914-44	DIODE DAP202K	
D800	8-719-053-18	DIODE 1SR154-400TE-25	
D801	8-719-053-18	DIODE 1SR154-400TE-25	
D802	8-719-988-62	DIODE 1SS355	
D803	8-719-400-20	DIODE MA152WA	
D900	8-719-988-62	DIODE 1SS355	
D901	8-719-423-23	DIODE MA8110-M	
D902	8-719-017-62	DIODE MA8068-L-TX	
D903	8-719-017-62	DIODE MA8068-L-TX	
D904	8-719-017-62	DIODE MA8068-L-TX	
D905	8-719-017-62	DIODE MA8068-L-TX	
D906	8-719-017-62	DIODE MA8068-L-TX	
D907	8-719-017-62	DIODE MA8068-L-TX	
D908	8-719-017-62	DIODE MA8068-L-TX	
D909	8-719-017-62	DIODE MA8068-L-TX	
D910	8-719-017-62	DIODE MA8068-L-TX	
D911	8-719-423-32	DIODE MA8120-M	
D912	8-719-914-44	DIODE DAP202K	
D913	8-719-420-14	DIODE MA8082-M	
D914	8-719-053-18	DIODE 1SR154-400TE-25 (Type A)	
D916	8-719-404-49	DIODE MA111	
		< IC >	
IC100	8-759-448-85	IC BU2624FV-E2	
IC102	8-759-492-59	IC SAA6588T-118 (C7900R)	
IC103	8-759-184-64	IC TC4W66FU (C7900R)	
IC200	8-759-158-96	IC TC9246F-TP1	
IC201	8-759-473-70	IC SM5852FS-E2	
IC202	8-759-464-81	IC PCM1717E-ST2	
IC203	8-759-711-82	IC NJM4580E	
IC204	8-759-238-47	IC TC74HCT7007AF(EL)	
IC250	8-759-337-67	IC NJM2360AM(TE2)	
IC300	8-759-487-82	IC LC75374E	
IC500	8-759-490-74	IC TDA7384	
IC600	8-759-449-89	IC BA8270F-E2	
IC700	8-759-532-49	IC MB90574PFV-G-113-BND	(C7900R: Type A)
IC700	8-759-532-50	IC MB90574PFV-G-114-BND (C7900: Type A)	
IC700	8-759-536-84	IC MB90F574PFV-G-113 (C7900R: Type B)	
IC700	8-759-536-85	IC MB90F574PFV-G-114 (C7900: Type B)	
IC800	8-759-347-50	IC BA3918-V3	
IC801	8-759-363-81	IC XC61AN4002PR	
IC802	8-759-344-91	IC RN5VD23AA-TL	
IC900	8-759-496-74	IC TA78DL06S (Type A)	
		< JACK >	
J1	1-764-808-31	JACK (ANT)(FM/AM ANTENNA)	
J900	1-566-822-41	JACK (REMOTE IN)	
		< COIL >	
L1	1-412-951-11	INDUCTOR CHIP 10uH	
L2	1-216-296-00	SHORT 0	
L3	1-412-055-11	INDUCTOR CHIP 3.3uH	
L50	1-412-951-11	INDUCTOR 10uH (C7900R)	
L200	1-412-955-11	INDUCTOR 22uH	
L201	1-412-955-11	INDUCTOR 22uH	
L202	1-412-955-11	INDUCTOR 22uH	
L230	1-412-955-11	INDUCTOR 22uH	
L231	1-412-955-11	INDUCTOR 22uH	
L250	1-412-533-21	INDUCTOR 47uH	
L251	1-412-537-31	INDUCTOR 100uH	
L252	1-412-533-21	INDUCTOR 47uH	
L500	1-416-712-21	COIL, CHOKE 4700uH	
L700	1-412-058-11	INDUCTOR CHIP 10uH	
L800	1-414-546-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q1	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q4	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q5	8-729-900-53	TRANSISTOR DTC114EK (C7900R)	
Q6	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q50	8-729-230-49	TRANSISTOR 2SC2712-YG (C7900R)	
Q51	8-729-020-67	TRANSISTOR XN1A312-TX (C7900R)	
Q100	8-729-920-21	TRANSISTOR DTC314TKH04	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q103	8-729-020-67	TRANSISTOR XN1A312-TX	
Q250	8-729-106-60	TRANSISTOR 2SB1115A	
Q251	8-729-900-53	TRANSISTOR DTC114EK	
Q252	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q253	8-729-020-67	TRANSISTOR XN1A312-TX	
Q254	8-729-807-12	TRANSISTOR 2SD1802-S	
Q255	8-729-020-67	TRANSISTOR XN1A312-TX	
Q300	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-920-21	TRANSISTOR DTC314TKH04	
Q302	8-729-920-21	TRANSISTOR DTC314TKH04	
Q303	8-729-920-21	TRANSISTOR DTC314TKH04	
Q400	8-729-920-21	TRANSISTOR DTC314TKH04	
Q401	8-729-920-21	TRANSISTOR DTC314TKH04	
Q402	8-729-920-21	TRANSISTOR DTC314TKH04	
Q403	8-729-920-21	TRANSISTOR DTC314TKH04	
Q500	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q600	8-729-424-08	TRANSISTOR UN2111	
Q601	8-729-421-22	TRANSISTOR UN2211	
Q603	8-729-920-21	TRANSISTOR DTC314TKH04	
Q700	8-729-424-08	TRANSISTOR UN2111	
Q701	8-729-421-22	TRANSISTOR UN2211	
Q900	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q901	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q902	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q903	8-729-026-68	TRANSISTOR 2SD2525(TP)	
Q904	8-729-026-68	TRANSISTOR 2SD2525(TP)	
Q905	8-729-924-73	TRANSISTOR FMA9	
Q906	8-729-921-25	TRANSISTOR FMC2	

Ref. No.	Part No.	Description			Remark
Q991	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q992	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q993	8-729-424-08	TRANSISTOR	UN2111		
		< RESISTOR >			
R1	1-216-049-11	RES, CHIP	1K	5%	1/10W
R2	1-216-041-11	METAL CHIP	470	5%	1/10W
R3	1-216-077-00	METAL CHIP	15K	5%	1/10W
R4	1-216-081-00	METAL CHIP	22K	5%	1/10W
R5	1-216-049-11	RES, CHIP	1K	5%	1/10W
R6	1-216-037-00	METAL CHIP	330	5%	1/10W
R7	1-216-073-00	METAL CHIP	10K	5%	1/10W
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W
R11	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R12	1-216-073-00	METAL CHIP	10K	5%	1/10W (C7900)
R12	1-216-077-00	METAL CHIP	15K	5%	1/10W (C7900R)
R13	1-216-295-00	SHORT	0		
R14	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R15	1-216-081-00	METAL CHIP	22K	5%	1/10W
R16	1-216-065-00	RES, CHIP	4.7K	5%	1/10W (C7900R)
R17	1-216-065-00	RES, CHIP	4.7K	5%	1/10W (C7900R)
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W (C7900R)
R20	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R21	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R22	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R30	1-216-238-00	RES, CHIP	47K	5%	1/8W (C7900R)
R31	1-216-198-00	RES, CHIP	1K	5%	1/8W
R33	1-216-295-00	SHORT	0		
R50	1-216-097-00	RES, CHIP	100K	5%	1/10W (C7900R)
R51	1-216-113-00	METAL CHIP	470K	5%	1/10W (C7900R)
R52	1-216-049-11	RES, CHIP	1K	5%	1/10W (C7900R)
R53	1-216-049-11	RES, CHIP	1K	5%	1/10W (C7900R)
R55	1-216-041-00	METAL CHIP	470	5%	1/10W (C7900R)
R56	1-216-035-00	METAL CHIP	270	5%	1/10W (C7900R)
R57	1-216-035-00	METAL CHIP	270	5%	1/10W (C7900R)
R58	1-216-001-00	METAL CHIP	10	5%	1/10W (C7900R)
R103	1-216-033-00	METAL CHIP	220	5%	1/10W (C7900R: German)
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W (C7900: E/C7900R: AEP, UK)
R103	1-216-075-00	METAL CHIP	12K	5%	1/10W (C7900: US, Canadian)
R104	1-216-077-00	METAL CHIP	15K	5%	1/10W (C7900: US, Canadian)
R104	1-216-081-00	METAL CHIP	22K	5%	1/10W (C7900: E/C7900R)
R105	1-216-077-00	METAL CHIP	15K	5%	1/10W (C7900: US, Canadian)
R105	1-216-081-00	METAL CHIP	22K	5%	1/10W (C7900: E/C7900R)
R106	1-216-033-00	METAL CHIP	220	5%	1/10W (C7900R: German)
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W (C7900: E/C7900R: AEP, UK)
R106	1-216-075-00	METAL CHIP	12K	5%	1/10W (C7900: US, Canadian)
R107	1-216-295-00	SHORT	0		
R109	1-216-089-00	RES, CHIP	47K	5%	1/10W
R111	1-216-073-00	METAL CHIP	10K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-089-00	RES, CHIP	47K	5%	1/10W
R116	1-216-295-00	SHORT	0		
R200	1-216-025-00	RES, CHIP	100	5%	1/10W
R201	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R202	1-216-091-00	METAL CHIP	56K	5%	1/10W
R203	1-216-025-00	RES, CHIP	100	5%	1/10W
R204	1-216-027-00	METAL CHIP	120	5%	1/10W
R205	1-216-025-00	RES, CHIP	100	5%	1/10W
R206	1-216-025-00	RES, CHIP	100	5%	1/10W
R207	1-216-025-00	RES, CHIP	100	5%	1/10W
R208	1-216-025-00	RES, CHIP	100	5%	1/10W
R209	1-216-025-00	RES, CHIP	100	5%	1/10W
R210	1-216-025-00	RES, CHIP	100	5%	1/10W
R211	1-216-025-00	RES, CHIP	100	5%	1/10W
R212	1-216-073-00	METAL CHIP	10K	5%	1/10W
R214	1-216-064-00	METAL CHIP	4.3K	5%	1/10W
R215	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R216	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R217	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R218	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R219	1-216-064-00	METAL CHIP	4.3K	5%	1/10W
R220	1-216-025-00	RES, CHIP	100	5%	1/10W
R221	1-216-025-00	RES, CHIP	100	5%	1/10W
R222	1-216-025-00	RES, CHIP	100	5%	1/10W
R224	1-216-073-00	METAL CHIP	10K	5%	1/10W
R225	1-216-073-00	METAL CHIP	10K	5%	1/10W
R227	1-216-089-00	RES, CHIP	47K	5%	1/10W
R228	1-216-089-00	RES, CHIP	47K	5%	1/10W
R229	1-216-295-00	SHORT	0		
R230	1-216-025-00	RES, CHIP	100	5%	1/10W
R231	1-216-025-00	RES, CHIP	100	5%	1/10W
R232	1-216-025-00	RES, CHIP	100	5%	1/10W
R250	1-219-986-11	METAL CHIP	0.2	1%	1/4W
R255	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R256	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R257	1-216-073-00	METAL CHIP	10K	5%	1/10W
R258	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R259	1-216-190-00	RES, CHIP	470	5%	1/8W
R260	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R302	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R303	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R304	1-216-033-00	METAL CHIP	220	5%	1/10W
R305	1-216-081-00	METAL CHIP	22K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R306	1-216-081-00	METAL CHIP	22K	5%	1/10W
R307	1-216-033-00	METAL CHIP	220	5%	1/10W
R308	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R309	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R310	1-216-089-00	RES, CHIP	47K	5%	1/10W
R311	1-216-089-00	RES, CHIP	47K	5%	1/10W
R312	1-216-075-00	METAL CHIP	12K	5%	1/10W
R313	1-216-073-00	METAL CHIP	10K	5%	1/10W
R402	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R404	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R405	1-216-033-00	METAL CHIP	220	5%	1/10W
R406	1-216-081-00	METAL CHIP	22K	5%	1/10W
R407	1-216-081-00	METAL CHIP	22K	5%	1/10W
R408	1-216-033-00	METAL CHIP	220	5%	1/10W
R409	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R410	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R411	1-216-089-00	RES, CHIP	47K	5%	1/10W
R412	1-216-089-00	RES, CHIP	47K	5%	1/10W
R413	1-216-073-00	METAL CHIP	10K	5%	1/10W
R414	1-216-075-00	METAL CHIP	12K	5%	1/10W
R500	1-216-049-11	RES, CHIP	1K	5%	1/10W
R501	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R502	1-216-073-00	METAL CHIP	10K	5%	1/10W
R503	1-216-073-00	METAL CHIP	10K	5%	1/10W
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R505	1-216-085-00	METAL CHIP	33K	5%	1/10W
R506	1-216-073-00	METAL CHIP	10K	5%	1/10W
R600	1-216-025-00	RES, CHIP	100	5%	1/10W
R601	1-216-073-00	METAL CHIP	10K	5%	1/10W
R602	1-216-097-00	RES, CHIP	100K	5%	1/10W
R603	1-216-150-00	RES, CHIP	10	5%	1/8W
R700	1-216-073-00	METAL CHIP	10K	5%	1/10W
R701	1-216-073-00	METAL CHIP	10K	5%	1/10W
R702	1-216-037-00	METAL CHIP	330	5%	1/10W
R703	1-216-049-11	RES, CHIP	1K	5%	1/10W
R705	1-216-295-00	SHORT	0		
R706	1-216-097-00	RES, CHIP	100K	5%	1/10W
R708	1-216-295-00	SHORT	0		
R709	1-216-089-00	RES, CHIP	47K	5%	1/10W
R711	1-216-295-00	SHORT	0		
R712	1-216-037-00	METAL CHIP	330	5%	1/10W
R713	1-216-097-00	RES, CHIP	100K	5%	1/10W
R714	1-216-097-00	RES, CHIP	100K	5%	1/10W
R715	1-216-025-00	RES, CHIP	100	5%	1/10W
R716	1-216-025-00	RES, CHIP	100	5%	1/10W
R717	1-216-025-00	RES, CHIP	100	5%	1/10W
R718	1-216-025-00	RES, CHIP	100	5%	1/10W
R719	1-216-025-00	RES, CHIP	100	5%	1/10W
R720	1-216-025-00	RES, CHIP	100	5%	1/10W
R721	1-216-025-00	RES, CHIP	100	5%	1/10W
R722	1-216-025-00	RES, CHIP	100	5%	1/10W
R723	1-216-025-00	RES, CHIP	100	5%	1/10W
R724	1-216-025-00	RES, CHIP	100	5%	1/10W
R725	1-216-025-00	RES, CHIP	100	5%	1/10W
R726	1-216-025-00	RES, CHIP	100	5%	1/10W
R727	1-216-049-11	RES, CHIP	1K	5%	1/10W
R728	1-216-049-11	RES, CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R729	1-216-025-00	RES, CHIP	100	5%	1/10W
R730	1-216-025-00	RES, CHIP	100	5%	1/10W
R731	1-216-025-00	RES, CHIP	100	5%	1/10W
R732	1-216-025-00	RES, CHIP	100	5%	1/10W
R733	1-216-049-11	RES, CHIP	1K	5%	1/10W
R734	1-216-025-00	RES, CHIP	100	5%	1/10W
R735	1-216-033-00	RES, CHIP	220	5%	1/10W
R736	1-216-033-00	RES, CHIP	220	5%	1/10W
R737	1-216-025-00	RES, CHIP	100	5%	1/10W
R738	1-216-025-00	RES, CHIP	100	5%	1/10W
R739	1-216-025-00	RES, CHIP	100	5%	1/10W
R740	1-216-025-00	RES, CHIP	100	5%	1/10W (C7900R)
R741	1-216-025-00	RES, CHIP	100	5%	1/10W
R742	1-216-025-00	RES, CHIP	100	5%	1/10W
R743	1-216-025-00	RES, CHIP	100	5%	1/10W
R744	1-216-025-00	RES, CHIP	100	5%	1/10W
R745	1-216-025-00	RES, CHIP	100	5%	1/10W
R746	1-216-025-00	RES, CHIP	100	5%	1/10W
R747	1-216-025-00	RES, CHIP	100	5%	1/10W (C7900R)
R748	1-216-025-00	RES, CHIP	100	5%	1/10W (C7900R)
R749	1-216-025-00	RES, CHIP	100	5%	1/10W (C7900R)
R750	1-216-025-00	RES, CHIP	100	5%	1/10W
R751	1-216-025-00	RES, CHIP	100	5%	1/10W
R752	1-216-025-00	RES, CHIP	100	5%	1/10W
R753	1-216-025-00	RES, CHIP	100	5%	1/10W
R754	1-216-025-00	RES, CHIP	100	5%	1/10W
R757	1-216-025-00	RES, CHIP	100	5%	1/10W
R758	1-216-025-00	RES, CHIP	100	5%	1/10W
R759	1-216-025-00	RES, CHIP	100	5%	1/10W
R760	1-216-025-00	RES, CHIP	100	5%	1/10W
R761	1-216-025-00	RES, CHIP	100	5%	1/10W
R762	1-216-025-00	RES, CHIP	100	5%	1/10W
R763	1-216-025-00	RES, CHIP	100	5%	1/10W
R764	1-216-025-00	RES, CHIP	100	5%	1/10W
R770	1-216-097-00	RES, CHIP	100K	5%	1/10W
R771	1-216-097-00	RES, CHIP	100K	5%	1/10W
R772	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (C7900R)
R773	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (C7900R)
R774	1-216-097-00	RES, CHIP	100K	5%	1/10W
R775	1-216-097-00	RES, CHIP	100K	5%	1/10W
R777	1-216-097-00	RES, CHIP	100K	5%	1/10W
R780	1-216-097-00	RES, CHIP	100K	5%	1/10W (C7900: US, Canadian)
R781	1-216-097-00	RES, CHIP	100K	5%	1/10W (C7900: E/C7900R)
R782	1-216-097-00	RES, CHIP	100K	5%	1/10W (C7900: E)
R783	1-216-097-00	RES, CHIP	100K	5%	1/10W (C7900: US, Canadian/C7900R)
R800	1-216-113-00	METAL CHIP	470K	5%	1/10W
R801	1-216-097-00	RES, CHIP	100K	5%	1/10W
R897	1-216-001-00	RES, CHIP	10	5%	1/10W (C7900R)
R900	1-216-222-00	RES, CHIP	10K	5%	1/8W

Ref. No.	Part No.	Description			Remark
R901	1-216-089-00	RES, CHIP	47K	5%	1/10W
R902	1-216-089-00	RES, CHIP	47K	5%	1/10W
R903	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R904	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R905	1-216-073-00	METAL CHIP	10K	5%	1/10W
R906	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R907	1-216-037-00	METAL CHIP	330	5%	1/10W
R908	1-216-037-00	METAL CHIP	330	5%	1/10W
R909	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R910	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R911	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R912	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R913	1-216-025-00	RES, CHIP	100	5%	1/10W
R914	1-216-025-00	RES, CHIP	100	5%	1/10W
R915	1-216-025-00	RES, CHIP	100	5%	1/10W
R916	1-216-097-00	RES, CHIP	100K	5%	1/10W
R917	1-216-097-00	RES, CHIP	100K	5%	1/10W
R918	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R919	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R920	1-216-025-00	RES, CHIP	100	5%	1/10W
R921	1-216-025-00	RES, CHIP	100	5%	1/10W
R924	1-216-295-00	SHORT	0 (Type B)		
R930	1-216-073-00	METAL CHIP	10K	5%	1/10W
R981	1-216-121-00	METAL CHIP	1M	5%	1/10W
R990	1-216-198-00	METAL CHIP	1K	5%	1/8W
R991	1-216-097-00	METAL CHIP	100K	5%	1/10W
R992	1-216-097-00	METAL CHIP	100K	5%	1/10W
R993	1-216-097-00	METAL CHIP	100K	5%	1/10W
R994	1-216-097-00	METAL CHIP	100K	5%	1/10W
R995	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R996	1-216-097-00	METAL CHIP	100K	5%	1/10W
R997	1-216-295-00	SHORT	0 (C7900R)		
R999	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
		< CONPOSITION CIRCUIT BLOCK >			
RB900	1-233-412-11	RES, CHIP NETWORK 1.0K (3216)			
RB901	1-233-412-11	RES, CHIP NETWORK 1.0K (3216)			
		< VARIABLE RESISTOR >			
RV1	1-223-591-11	RES, ADJ, CARBON 470K			
		< SWITCH >			
S700	1-572-552-21	SWITCH, SLIDE (POWER SELECT)			
S701	1-572-552-21	SWITCH, SLIDE (FREQUENCY SELECT)			(C7900: E)
S900	1-692-431-21	SWITCH, TACTILE (RESET)			
		< THERMISTOR >			
TH600	1-801-792-21	THERMISTOR, POSITIVE			
		< TUNER >			
TU1	A-3282-029-A	TUNER UNIT TUX-006/2 (E)			
		< VIBRATOR >			
X1	1-760-838-21	VIBRATOR, CRYSTAL (7.2MHz)			
X2	1-579-242-11	VIBRATOR, CRYSTAL (4.332MHz)(C7900R)			
X700	1-767-833-21	VIBRATOR, CERAMIC (3.68MHz)			

Ref. No.	Part No.	Description			Remark
X701	1-579-886-21	VIBRATOR, CRYSTAL (32kHz)			
**********					
*	A-3313-612-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C302	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C303	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C305	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C306	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C309	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C310	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C311	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C314	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C315	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C316	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C317	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C318	1-104-852-11	TANTAL. CHIP	22uF	20%	6.3V
C319	1-104-852-11	TANTAL. CHIP	22uF	20%	6.3V
C320	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C321	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C322	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C324	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C325	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C326	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C327	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C328	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C329	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C330	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C331	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C333	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C334	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C335	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C336	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C337	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C338	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C339	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C340	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C341	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C342	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C344	1-104-852-11	TANTAL. CHIP	22uF	20%	6.3V
C345	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C346	1-104-852-11	TANTAL. CHIP	22uF	20%	6.3V
C347	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C348	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C349	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C350	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C351	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C352	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C353	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C356	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C357	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C358	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

SERVO

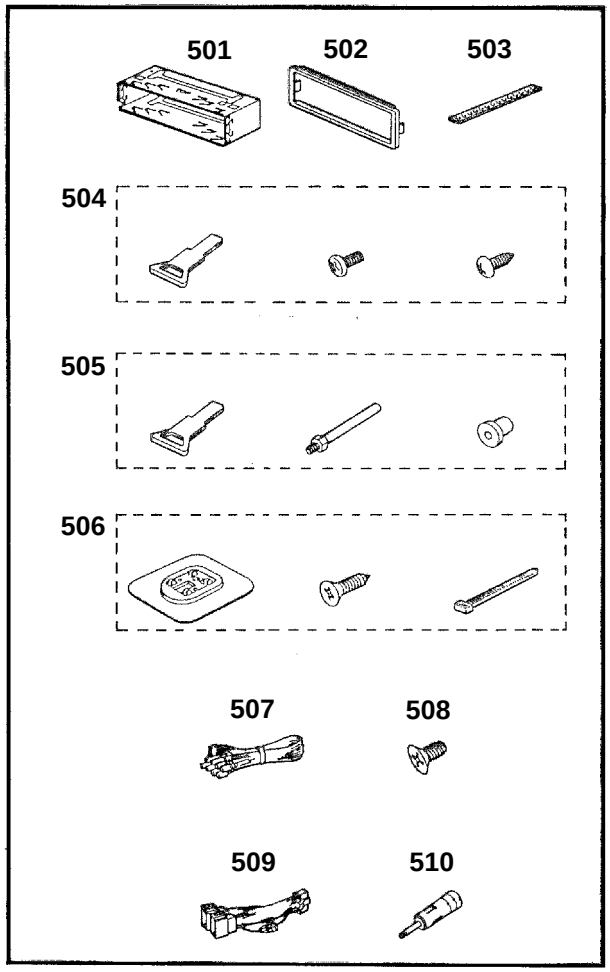
Ref. No.	Part No.	Description			Remark
C359	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C361	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C362	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C501	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C510	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN101	1-779-389-21	HOUSING,CONNECTOR(PC BOARD)30P			
CN102	1-573-929-11	CONNECTOR, FFC/FPC (ZIF) 20P			
CN103	1-764-439-21	CONNECTOR, FPC 11P			
		< DIODE >			
D401	8-719-157-93	DIODE RD3.0SB2			
D501	8-719-988-62	DIODE 1SS355			
		< FERRITE BEAD >			
FB301	1-414-235-11	INDUCTOR CHIP 0uH			
FB302	1-414-385-11	INDUCTOR CHIP 0uH			
		< IC >			
IC301	8-752-384-47	IC CXD2652AR			
IC302	8-752-074-77	IC CXA2523R			
IC303	8-759-430-25	IC BH6511FS-E2			
IC304	8-759-096-87	IC TC7WU04FU(TE12R)			
IC305	8-759-040-83	IC BA6287F			
IC306	8-759-058-62	IC TC7S08FU(TE85R)			
IC307	8-759-498-44	IC MSM51V4400-70TS-K			
IC401	8-759-909-71	IC BA4558F			
IC501	8-752-893-33	IC CXP84340-089Q			
IC502	8-759-238-47	IC TC74HCT7007AF(EL)			
IC503	8-759-238-47	IC TC74HCT7007AF(EL)			
		< COIL >			
L301	1-412-058-11	INDUCTOR CHIP 10uH			
L302	1-412-058-11	INDUCTOR CHIP 10uH			
L303	1-412-039-51	INDUCTOR CHIP 100uH			
L304	1-412-039-51	INDUCTOR CHIP 100uH			
L305	1-412-039-51	INDUCTOR CHIP 100uH			
L306	1-412-039-51	INDUCTOR CHIP 100uH			
L501	1-412-058-11	INDUCTOR CHIP 10uH			
		< TRANSISTOR >			
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q401	8-729-920-85	TRANSISTOR 2SD1664-QR			
Q402	8-729-106-60	TRANSISTOR 2SB1115A			
Q403	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R301	1-216-809-11	METAL CHIP	100	5%	1/16W
R302	1-216-809-11	METAL CHIP	100	5%	1/16W
R303	1-216-809-11	METAL CHIP	100	5%	1/16W
R304	1-216-809-11	METAL CHIP	100	5%	1/16W
R305	1-216-809-11	METAL CHIP	100	5%	1/16W
R306	1-216-809-11	METAL CHIP	100	5%	1/16W
R307	1-216-809-11	METAL CHIP	100	5%	1/16W
R308	1-216-809-11	METAL CHIP	100	5%	1/16W
R310	1-216-821-11	METAL CHIP	1K	5%	1/16W
R313	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R314	1-216-821-11	METAL CHIP	1K	5%	1/16W
R315	1-216-809-11	METAL CHIP	100	5%	1/16W
R318	1-216-833-11	METAL CHIP	10K	5%	1/16W
R319	1-216-845-11	METAL CHIP	100K	5%	1/16W
R320	1-216-855-11	METAL CHIP	680K	5%	1/16W
R324	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R325	1-216-821-11	METAL CHIP	1K	5%	1/16W
R327	1-216-821-11	METAL CHIP	1K	5%	1/16W
R328	1-216-811-11	METAL CHIP	150	5%	1/16W
R329	1-216-819-11	METAL CHIP	680	5%	1/16W
R330	1-216-853-11	METAL CHIP	470K	5%	1/16W
R331	1-216-809-11	METAL CHIP	100	5%	1/16W
R332	1-216-809-11	METAL CHIP	100	5%	1/16W
R333	1-216-819-11	METAL CHIP	680	5%	1/16W
R334	1-216-809-11	METAL CHIP	100	5%	1/16W
R335	1-216-815-11	METAL CHIP	330	5%	1/16W
R336	1-216-853-11	METAL CHIP	470K	5%	1/16W
R337	1-216-853-11	METAL CHIP	470K	5%	1/16W
R338	1-216-833-11	METAL CHIP	10K	5%	1/16W
R339	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R340	1-216-843-11	METAL CHIP	68K	5%	1/16W
R341	1-216-837-11	METAL CHIP	22K	5%	1/16W
R342	1-216-833-11	METAL CHIP	10K	5%	1/16W
R343	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R344	1-216-833-11	METAL CHIP	10K	5%	1/16W
R345	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R346	1-216-841-11	METAL CHIP	47K	5%	1/16W
R347	1-216-833-11	METAL CHIP	10K	5%	1/16W
R348	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W
R349	1-216-025-00	RES, CHIP	100	5%	1/10W
R350	1-216-142-00	RES, CHIP	4.7	5%	1/8W
R351	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R352	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R353	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R354	1-216-857-11	METAL CHIP	1M	5%	1/16W
R355	1-216-833-11	METAL CHIP	10K	5%	1/16W
R356	1-216-833-11	METAL CHIP	10K	5%	1/16W
R357	1-216-017-00	RES, CHIP	47	5%	1/10W
R401	1-216-073-00	METAL CHIP	10K	5%	1/10W
R402	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R403	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/16W
R405	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R406	1-218-714-11	METAL CHIP	8.2K	0.50%	1/16W

Ref. No.	Part No.	Description			Remark
R501	1-216-821-11	METAL CHIP	1K	5%	1/16W
R502	1-216-821-11	METAL CHIP	1K	5%	1/16W
R503	1-216-821-11	METAL CHIP	1K	5%	1/16W
R504	1-216-821-11	METAL CHIP	1K	5%	1/16W
R505	1-216-821-11	METAL CHIP	1K	5%	1/16W
R506	1-216-845-11	METAL CHIP	100K	5%	1/16W
R507	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W
R510	1-216-845-11	METAL CHIP	100K	5%	1/16W
R512	1-216-845-11	METAL CHIP	100K	5%	1/16W
R516	1-216-809-11	METAL CHIP	100	5%	1/16W
R517	1-216-809-11	METAL CHIP	100	5%	1/16W
R518	1-216-809-11	METAL CHIP	100	5%	1/16W
R519	1-216-809-11	METAL CHIP	100	5%	1/16W
R520	1-216-809-11	METAL CHIP	100	5%	1/16W
R521	1-216-809-11	METAL CHIP	100	5%	1/16W
R522	1-216-821-11	METAL CHIP	1K	5%	1/16W
R523	1-216-821-11	METAL CHIP	1K	5%	1/16W
R524	1-216-821-11	METAL CHIP	1K	5%	1/16W
R525	1-216-845-11	METAL CHIP	100K	5%	1/16W
R526	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R527	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R528	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R529	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R530	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R531	1-216-845-11	METAL CHIP	100K	5%	1/16W
R532	1-216-864-11	METAL CHIP	0	5%	1/16W
R533	1-216-845-11	METAL CHIP	100K	5%	1/16W
R534	1-216-845-11	METAL CHIP	100K	5%	1/16W
R535	1-216-845-11	METAL CHIP	100K	5%	1/16W
R536	1-216-864-11	METAL CHIP	0	5%	1/16W
R537	1-216-809-11	METAL CHIP	100	5%	1/16W
R538	1-216-845-11	METAL CHIP	100K	5%	1/16W
R540	1-216-845-11	METAL CHIP	100K	5%	1/16W
R542	1-216-845-11	METAL CHIP	100K	5%	1/16W
R545	1-216-864-11	METAL CHIP	0	5%	1/16W
		< CONPOSITION CIRCUIT BLOCK >			
RB301	1-233-576-11	RES, CHIP NETWORK 100			
RB302	1-233-576-11	RES, CHIP NETWORK 100			
RB503	1-233-412-11	RES, CHIP NETWORK 1.0K (3216)			
		< THERMISTOR >			
TH501	1-810-421-11	THERMISTOR NTH5G36B103K01TE			
		< VIBRATOR >			
X301	1-767-429-21	VIBRATOR, CRYSTAL (22.5792MHz)			
X501	1-760-365-11	VIBRATOR, CERAMIC (10MHz)			
**********					
		MISCELLANEOUS			
		**********			
13	1-776-207-71	CORD (WITH CONNECTOR) (POWER) (C7900)			
13	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)			(C7900R)
151	1-654-693-11	SENSOR FLEXIBLE BOARD			
⚠169	8-583-037-02	OPTICAL PICK-UP KMS-241A/J2RP			
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)			

Ref. No.	Part No.	Description	Remark
M901	A-3301-407-A	MOTOR ASSY, SP (SPINDLE)	
M902	A-3291-190-A	MOTOR ASSY, SL (SLED)	
M903	A-3291-191-A	MOTOR ASSY, LO (LOADING)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-621-772-10	SCREW +B 2X4	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#3	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#4	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#5	7-685-851-04	SCREW +BVTT 2X4 (S)	
#6	7-624-102-04	STOP RING 1.5, TYPE-E	
#7	7-627-852-37	PRECISION SCREW +P 1.7X1.8 TYPE3	
#8	7-621-772-08	SCREW +B 2X3	
#9	7-621-555-10	SCREW +K 2X3	
#10	7-627-554-07	SCREW,PRECISION +P 2X2.2	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-473-067-71	REMOTE COMMANDER (RM-X4S)	
	3-012-070-01	LABEL (SOUND) (2) (for RM-X4S)	
	X-3373-617-1	CASE ASSY (for FRONT PANEL)	
	3-862-552-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (C7900: E)	
	3-862-552-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (C7900R: AEP, UK)	
	3-862-552-31	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN) (C7900R: AEP)	
	3-862-552-41	MANUAL, INSTRUCTION (GERMAN) (C7900R: German)	
	3-862-552-51	MANUAL, INSTRUCTION (ENGLISH) (C7900: US, Canadian)	
	3-862-552-61	MANUAL, INSTRUCTION (FRENCH) (C7900: Canadian)	
	3-862-553-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE) (C7900: E)	
	3-862-553-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (C7900R: AEP, UK)	
	3-862-553-31	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN, DUTCH, ITALIAN) (C7900R: AEP, German)	
	3-862-553-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (C7900: US, Canadian)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
501	3-009-613-21	FRAME	
502	3-932-910-11	COLLAR (CDX)	
503	3-924-961-01	SUPPORT (ND), FITTING (C7900: US, Canadian)	
504	X-3370-076-1	SCREW ASSY (U.KEY), FITTING (C7900: US, Canadian)	
505	X-3370-077-1	SCREW ASSY (AE.KEY), FITTING (C7900: E/C7900R)	
506	X-3373-432-1	BRACKET ASSY (for RM-X4S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
507	1-776-207-71	CORD (WITH CONNECTOR) (POWER)	(C7900)
508	3-934-325-01	SCREW, +K (5X8) TAPPING	(C7900)
509	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(C7900R)
510	1-465-459-21	ADAPTER, ANTENNA	(C7900R)



MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.08	Supplement-1, Correction-1 are included.
1.0	1998.04 1998.03 1998.02	Correction-1 Supplement-1 New